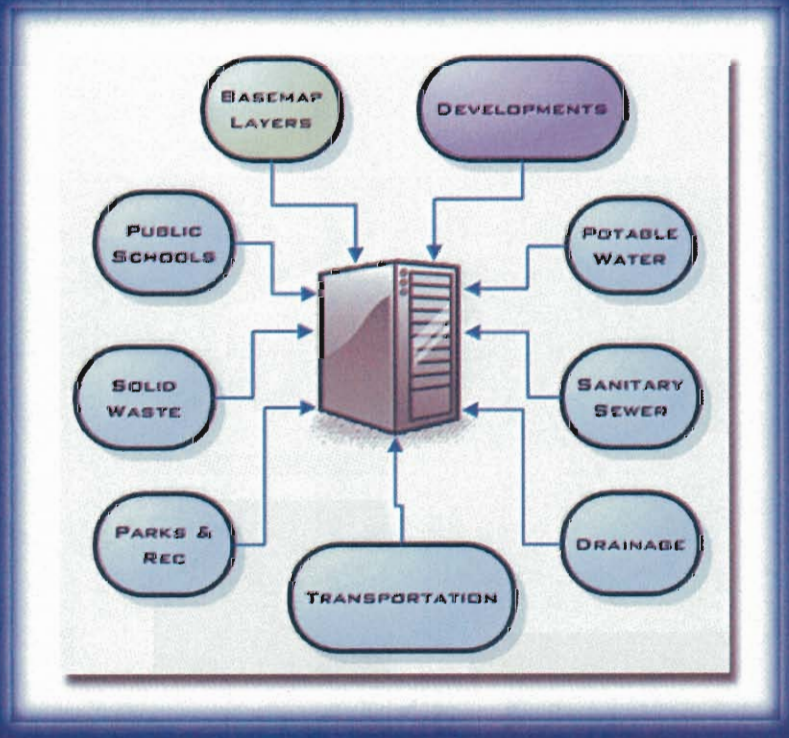
FINAL REPORT

A GIS-BASED CONCURRENCY MANAGEMENT SYSTEM FOR LOCAL GOVERNMENTS

AUGUST 30, 2007



Prepared for the Florida Department of Community Affairs

FLORIDA DEPARTMENT OF Community Affairs

By:

TREASURE COAST TCRPC REGIONAL PLANNING COUNCIL "Bringing Communities Together" Est. 1976

LBFH INC. CONSULTING CIVIL ENGINEERS SURVEYORS MAPPERS

A Boyle Engineering Company

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REPORT

Executive Summary

The Treasure Coast Regional Planning Council (TCRPC) contracted with the Florida Department of Community Affairs to establish a GIS-based system to assist with concurrency management for Florida local governments. The TCRPC sub-contracted with LBFH, Inc. – A Boyle Engineering Company. The following public facilities which are required in the Florida Statutes were considered: transportation, water, sewer, public schools, solid waste, drainage, and parks and recreation. The team designed a system and created a general data model. The team then conducted a pilot project for the City of Palm Beach Gardens. After careful review of concurrency documents and close cooperation between the team and the City, a detailed model was created and implemented. Despite having less than a two month time frame to complete such a complex project, the system yielded favorable results and allowed users to view, analyze, and report on aspects of concurrency in a more comprehensive and efficient manner. At the time of this report full implementation has not yet been completed. However, the team continues to work toward full implementation. Several proposed enhancements are being considered for a future phase.

Introduction

Local governments in Florida must address concurrency, a growth management concept that was adopted in 1985 as part of the Growth Management Act. Concurrency calls for local government comprehensive plans to include standards to ensure public facilities are adequate to support growth. Based on limited research, local governments today are using various methods to track concurrency. There is a wide range in the levels of complexity used. For example, larger governments may utilize advanced computerized methods to track only one or two components of concurrency while some smaller ones are tracking it with spreadsheets and a web of paper files and documents.

Concurrency requires local governments to look at several public facilities in relation to pending, approved, and existing developments. All of these features have geographic components or could be viewed on a map. This lends itself well to being stored, managed, and viewed in a GIS (geographic information system) format to assist with analysis of concurrency to the point of potentially revealing new patterns or reprioritizing the implementation of capital improvements.

The system was developed by the TCRPC and LBFH, Inc. – A Boyle Engineering Company – Palm City, Florida with support from ESRI, Inc. – Redlands, California through its ESRI Technology Authorized Consultant agreement. The team was mainly comprised of Certified GIS Professionals (GISPs) and Certified Planners (AICPs).

The team built a prototype which is customizable to fit the needs of specific local governments and specific users at those government offices. The prototype contains a GIS interface for analysis and review of data for pending and existing developments to meet concurrency for facilities as required in Chapter 163, Florida Statutes. With further development, customized versions can be created for specific local government standards. This would include the addition of concurrency facilities as required by the local governments, such as police and fire, which are in addition to the State required

facilities. The team designed a data model, or blueprint, such that interested local governments can more readily implement a concurrency management system. The team used this data model in a pilot project for the City of Palm Beach Gardens. An overall methodology for the project was outlined and is included in this report. An initial requirement is to determine needs and create data for the system. Staff and/or consultants can implement and maintain these systems. The team designed the system to be used with existing data in its native format in many cases, thus minimizing additional effort needed to implement and maintain the system.

There are several layers of base data that are needed, such as parcels, service area boundaries, and aerial photography. These base GIS layers provide the framework and background information to support analysis. In general, local governments have been creating much of this base data in recent years, which gives some degree of leverage to this project. During full implementations, staff and/or consultants can convert or create layers to fit the data model. In all cases, information needed from each local government includes existing GIS data and concurrency related documents such as: water, sewer, drainage, parks, and solid waste data, proposed developments, population projections, level of service (LOS) standards, reserved capacity of committed developments, and available capacity for public facilities. In many cases, the system will link to existing spreadsheets or tracking methods with geographically based maps and tools to analyze existing and proposed developments in relation to existing and proposed facilities.

The system incorporates existing and projected population, pending, approved and planned developments, and existing facilities and planned capital improvements. As this data is configured, the system has the capability to look at up to four years in the future to compare growth and services (for concurrency-related capital improvement projects). The system allows a user to generate scenarios based on changes in projections, developments, and infrastructure capacities, assuming all data is available.

The project was started in early July 2007 with a deadline in late August 2007. Time was a limiting factor in accomplishing a full implementation. However, a system design, data model, pilot project in test usage, and this report were provided.

Purpose

The purpose of the project was to create a system that can assist local governments in 1) standardizing data management, analysis, and reporting for concurrency and 2) determining if existing and proposed development is meeting concurrency to State requirements, customizable to local government requirements. The project included tasks to design a system, conduct a pilot project with a local government, and this report which documents the research, design, capabilities, and results of the pilot project. The main purposes to implement a GIS-based concurrency management system are information consolidation, information storage and access, and information query for decision analysis.

A foundation of a GIS is to answer complex spatial questions such as many of those that arise with concurrency. GIS systems are established to assist people in making more informed geographically based decisions. The system is being developed in ArcGIS

desktop software for use by a planner with basic hands-on GIS knowledge or a GIS Specialist working in conjunction with a planner. Future enhancements can enable a more user-friendly interface such that planners or local government managers with no GIS experience can navigate the system.

In general the system can assist in answering the following: 1) do existing facilities and existing developments allow for the designated LOS in the current year and 2) do planned improvements and planned developments allow for the designated LOS in future years. These questions can be asked in each of the seven core areas of concurrency (water, sewer, parks and recreation, transportation, solid waste, drainage, and schools), for the current year and for four future years.

But there are many specific questions that a local government might ask within these broader questions. Concurrency itself is a very broad topic, and can mean different things to different people. Some staff members at various local governments only deal with specific parts of concurrency. Thus, the GIS can be tailored to answer common questions related to concurrency based on specific user needs. Designated staff members of a local government or a consultant can query the system for information. Planners can access the system to extract information relating to concurrency and work with a local government manager to report on and use the information to make informed decisions. Depending on the user, there may be specific questions such as: Where are projects that are approved? What is the development status? How many units are approved? How many square feet of commercial are pending? Other questions that may not be as common or may be extremely difficult to answer are: What is the population within three miles of each community park? What is the finished floor elevation for all approved developments within a basin? Where can one go to find all concurrency related documents? How much budget is allocated to concurrency-related capital improvements in a given Commissioner's District?

Another purpose of the system is to manage and allow a one-point access to concurrency related documents. There are many documents related to concurrency such as letters of concurrency approval, capacity reservations, number of vehicular trips generated, and many other documents. These can be hyperlinked in the system.

The final goal is to create a system that has the potential to become a standardized model for local governments to assist in the management of concurrency. Many methods to manage concurrency are being used by local governments. There is a lack of standardization in data and reports of concurrency status. This model could be made available to local governments to readily implement a GIS-based concurrency management system.

Background

There has been rapid growth and change in Florida during recent years. Over the long term, this is expected to continue. One growth management concept that has been adopted in Florida is concurrency. Concurrency calls for local government comprehensive plans to include standards to ensure public facilities are adequate for growth. A key component of concurrency is the concept of levels of service (LOS).

With the exception of the Florida Interstate Highway system, local governments establish the LOS standards within their jurisdiction (S. 163.3177(10)(f), F.S). LOS standards are to be "adequate" and based on "data and analysis" (Rule 9J-5.0055(3), F.A.C.). If LOS standards are not met, development permits cannot be approved. Public facilities must be provided in order to achieve and maintain the adopted LOS standards (S. 163.3180(13)(c), F.S.).

Florida Statute 163.3180, concurrency, begins "Sanitary sewer, solid waste, drainage, potable water, parks and recreation, schools, and transportation facilities, including mass transit, where applicable, are the only public facilities and services subject to the concurrency requirement on a statewide basis." However, many local governments have added additional facilities to the list, namely police and fire.

To meet LOS standards, comprehensive plans need to include coordinated plans for future land use and public facilities, a five year Capital Improvements Program, and a concurrency management system that deals with development permits. In this case, the term concurrency management system is loosely defined. Tying an existing system in with GIS or using GIS as the foundation of a concurrency management system via a standardized data model is a viable option for local government.

In many instances, the local government is not the service provider, especially for water, sewer or solid waste. In some of these cases, the local government doesn't have the responsibility to provide the infrastructure or service, but does have the responsibility to ensure that adequate capacity is available prior to or concurrent with development.

There are exceptions for transportation, due to countervailing planning and public policy goals that may conflict with transportation concurrency (S. 163.3180(5)(a), F.S.). Exceptions are available for downtown revitalization and urban infill and redevelopment (S. 163.3180(5)(b), F.S.). There are other exceptions as follows: Transportation Concurrency Exception Areas (no standard), di minimis impacts, Redevelopment/Reconstruction, concurrency management areas (roadway averaging), long term concurrency management areas (interim standard with long term schedule), Multimodal Districts and Multiple Use Development of Regional Impacts.

All of these aspects of concurrency are spatial and geographic in nature, and GIS was designed as a tool to work with such data. A goal of this project is to put many factors needed in concurrency in a GIS format to assist with concurrency management and analysis.

There is widespread use of GIS in local governments in Florida, to the point where most have the software available, at least at the basic level. There are countless examples of local governments creating applications and using GIS for data management and analysis such as can be performed for concurrency.

Preliminary discussions with various local governments in Florida indicate that there are staff members and managers interested to use GIS applications to help with concurrency management. Based on preliminary research on the topic of use of GIS for concurrency, there are few studies or applications available, and for the most part the few that were

found only deal with a single aspect of concurrency, such as schools. The following sections describe a project to develop a comprehensive system for local governments.

Methodology

Beyond understanding the State requirements for concurrency, establishing a concurrency geodatabase (a common format for a GIS database) for a local government requires reviewing the local government Comprehensive Plan and other relevant information, as well as GIS and non-GIS data at the local government. An intergovernmental data review is also necessary particularly in cases where the local government is not the primary entity responsible for a given public facility. The LOS requirements for public facilities must be determined for the local government. The data can then be configured as necessary to fit the data model and to use tools and reports created for concurrency management, monitoring, analysis, and reporting.

The final geodatabase can be installed on the local government computer network. Depending on the existing setup at the local government, it may run as a stand-alone system with links to existing documents, or it could be further integrated.

In summary, the following steps are needed:

Data and Procedure Review	Review of existing data and procedures, including intergovernmental data and coordination
Implementation Plan	Create and present a plan to establish the system
System Development	Development of a customized data model
Data Conversion	Creation of non-existing data or potential reformatting of existing data
Installation	Installation can be stand-alone to fully integrated
Training	A brief training is be conducted using the system
Maintenance	Maintenance should occur at a predetermined frequency

Table 1. Steps for a GIS-based concurrency management system implementation.

The team followed this methodology to conduct a pilot project for a local government in Florida. The pilot project is described in a later section in this report.

System Design

General Design

The team prepared a model for a GIS-based concurrency management system for the Florida Department of Community Affairs. The model contains a methodology, data structure (or data model), and sample tools and reports that can be used by local governments statewide. The system has potential to be used as a standardized data management, analysis, and reporting tool for concurrency.

The system is designed for use with ArcGIS commercial-off-the-shelf software. Local governments can further customize the system to meet individualized needs or to

integrate further data into the system. ArcGIS is owned by a vast majority of the local government agencies in Florida, and those local governments will not need to purchase additional base software to run the system.

The design included a base layer of parcel information, land use, roads, aerial photography, and political boundaries. The following public facilities, viewable separately in the GIS interface, are included in the design: roads, schools, water, sewer, drainage, solid waste, and parks and recreation. Finally, development layers and tables provide the basic components of the system.

After research on the concurrency process, a generalized statewide concurrency model was developed. The model illustrates the major components necessary for a concurrency management system at any Florida local government. Figure 1 (below) depicts the model.

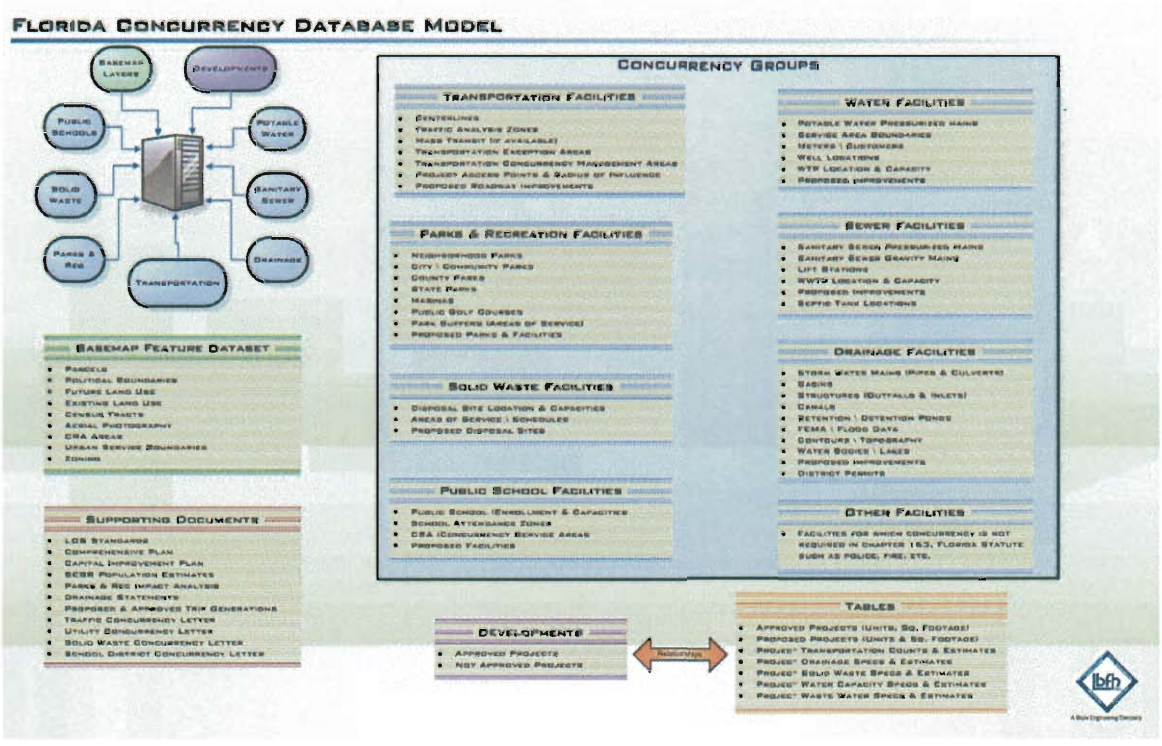


Figure 1. A simplified model for a GIS-based concurrency management system for local governments. A full size version can be found in Appendix B.

Building a Geodatabase

After initial research, and development of the general model on the concurrency process, the next step was to design a geodatabase. The geodatabase format is commonly used among Florida local governments and in fact, most GIS users in all industries. The geodatabase format was created by ESRI, Inc. and is based on the Microsoft Access database structure. The geodatabase is a warehouse for GIS features which are composed of points, lines, polygons, tables, relationships, and rasters. The points, lines, and polygons represent real world locations of features, such as developments, projects, water

and sewer piping, public schools, and roadways. Relationships represent links between features. Rasters represent grid data, in this case namely aerial photography. In addition, detailed information or attributes regarding each feature is stored in its associated table. The structure makes the geodatabase an ideal candidate to bring together data which may not have been previously compatible. With all the data residing in one comprehensive database, it can be quickly and easily viewed, edited, and queried. While the geodatabase designed for a specific local government is tailored for their particular use and specifications, it can, with some minor alterations, be used by other government agencies as a concurrency management system.

Another benefit of using the geodatabase is its ability to uphold data integrity during updates and editing. Through the use of subtype, domains and default values a GIS specialist can make sure that a feature's values or attributes get inputted properly into the database. This is crucial when performing analysis or queries, since the outcome of such inquiries is dependant upon the proper input of information. A subtype is a subset of a GIS feature. For example, there are different types of roadways, such as, highways, major roads, and local roads. These all belong to one major feature class or GIS layer called roadways, but each may have unique default values or a need to be displayed on a map differently. Subtypes enable the database editor to set up default values for individual fields (i.e. number of lanes, owner and width), thus making updating easier. Also, by using subtypes instead of creating individual feature classes or layers for each subset of a feature, the database runs more efficiently.

Domains are also used to uphold data quality by dictating what values can be added in a particular field. The database administrator creates a list of values which are associated with a particular field, and the editor can only choose from those choices. This helps maintain integrity by not allowing misspelled words or other inappropriate values to enter into the database and saves time with data entry. Figure 2 shows an example of a feature class with domains allowing for the appropriate types of attributes to be added. Use of domains also provides an easier method for an end user, such that the attribute can be selected from a dropdown list.

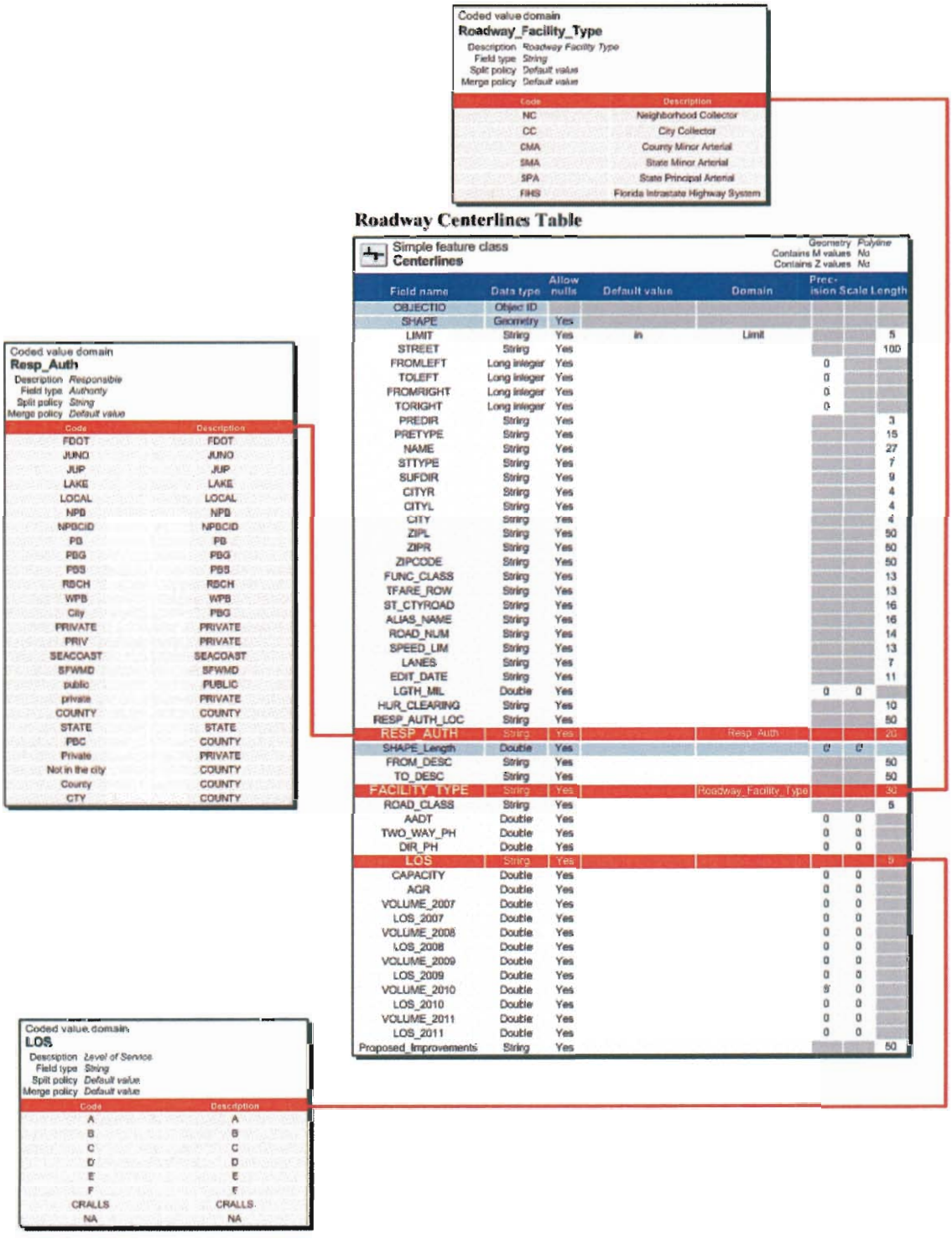
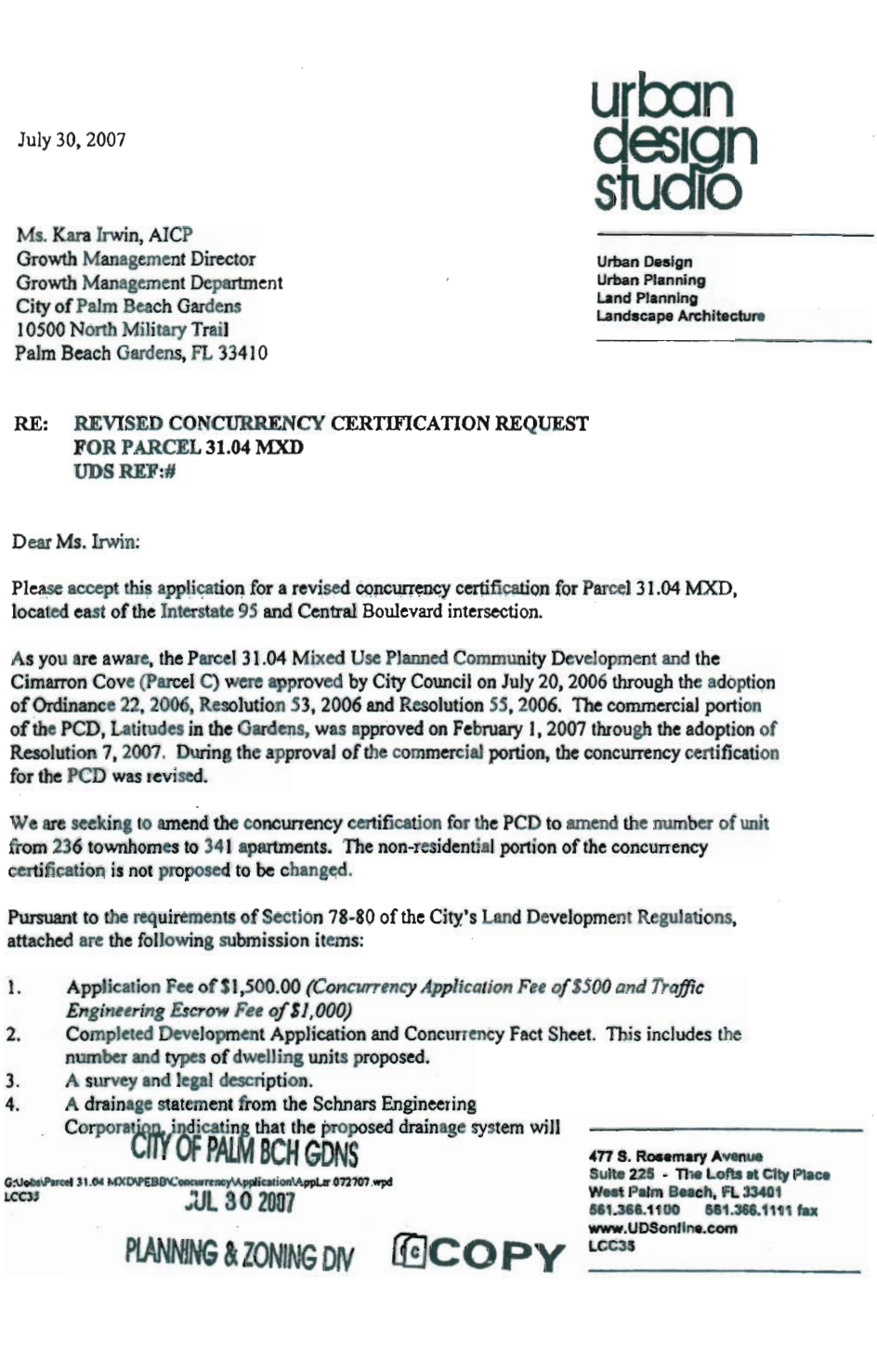


Figure 2. This graphic shows the roadway centerline feature class with several preset domains.

Hyperlinking of Concurrency Documents

There are many documents related to concurrency at a local government including letters, analysis reports, and project summaries. During the initial phase of the project, the team realized that an essential component of a successful concurrency management system would be its ability to assist with managing and organizing the paperwork associated with concurrency. Local governments can be challenged with the management of all these documents and may not be able to query all the documents for a particular project. One aspect of the geodatabase enables a user to have access to these documents by hyperlinking to them. Hyperlinking involves setting a path to a document on a computer system, generally in a predefined naming convention and organized data structure. A user clicking on a hyperlink will be provided with a picture of the document in the interface. Figure 3 illustrates and example of a concurrency letter hyperlinked in the system.



July 30, 2007

urban design studio

Urban Design
Urban Planning
Land Planning
Landscape Architecture

Ms. Kara Irwin, AICP
Growth Management Director
Growth Management Department
City of Palm Beach Gardens
10500 North Military Trail
Palm Beach Gardens, FL 33410

RE: REVISED CONCURRENCY CERTIFICATION REQUEST
FOR PARCEL 31.04 MXD
UDS REF:#

Dear Ms. Irwin:

Please accept this application for a revised concurrency certification for Parcel 31.04 MXD, located east of the Interstate 95 and Central Boulevard intersection.

As you are aware, the Parcel 31.04 Mixed Use Planned Community Development and the Cimarron Cove (Parcel C) were approved by City Council on July 20, 2006 through the adoption of Ordinance 22, 2006, Resolution 53, 2006 and Resolution 55, 2006. The commercial portion of the PCD, Latitudes in the Gardens, was approved on February 1, 2007 through the adoption of Resolution 7, 2007. During the approval of the commercial portion, the concurrency certification for the PCD was revised.

We are seeking to amend the concurrency certification for the PCD to amend the number of unit from 236 townhomes to 341 apartments. The non-residential portion of the concurrency certification is not proposed to be changed.

Pursuant to the requirements of Section 78-80 of the City's Land Development Regulations, attached are the following submission items:

1. Application Fee of $1,500.00 *(Concurrency Application Fee of $500 and Traffic Engineering Escrow Fee of $1,000)*
2. Completed Development Application and Concurrency Fact Sheet. This includes the number and types of dwelling units proposed.
3. A survey and legal description.
4. A drainage statement from the Schnars Engineering Corporation, indicating that the proposed drainage system will

CITY OF PALM BCH GDNS

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JUL 30 2007

PLANNING & ZONING DIV

COPY

477 S. Rosemary Avenue
Suite 225 - The Lofts at City Place
West Palm Beach, FL 33401
561.366.1100 561.366.1111 fax
www.UDSonline.com
LCC35

Figure 3. A concurrency certification request, one of several documents that can be hyperlinked and viewed through the GIS based on a project by project basis.

Hyperlinks provide a link from the approved and pending projects to designated documents for each of the concurrency components. Fields were created in the data model to house the links, thus providing quick and easy access to various letters of concurrency, project summaries, traffic reports, capacity statements, permits, and impact

analysis reports for each project. All these important documents are accessible through tools available in GIS, namely identify and hyperlink tools. The potential for time savings to look for files at future times can be a huge return on investment.

These documents will be organized and stored within the GIS, in a standardized format (e.g. JPEG) that will also allow for viewing of the documents outside of the GIS using common software available on most computers. All relevant documents can be identified, scanned and labeled. This in turn provides additional benefits, such as protection from disasters (e.g., fire or hurricane) and reduced physical storage space required.

Development of Sample Tools

As part of the overall system design, a customized toolset can be created to perform analysis and assist the end user in navigating through the multitude of GIS layers. A toolset may consist of several components, such as a toolbar with buttons, a custom toolbox which contains more complex tools needed for analysis and data conversion, and the model builder interface which strings tools and functions together. Once a model has been built to perform a particular task or set of tasks, it can be saved as a tool to be used in the future. In conjunction these custom features allow users easier access to commonly used functions and tools for analysis. Also, through use of a scripting language additional tools and functions can be developed to further customize and enhance analysis. In addition to the tools provided through the concurrency toolbar and toolbox, the ArcGIS off-the-shelf software package comes equipped with hundreds of other useful features which can be used for concurrency analysis.

Figure 4. The concurrency toolbar created as a sample for a GIS-based concurrency management system.

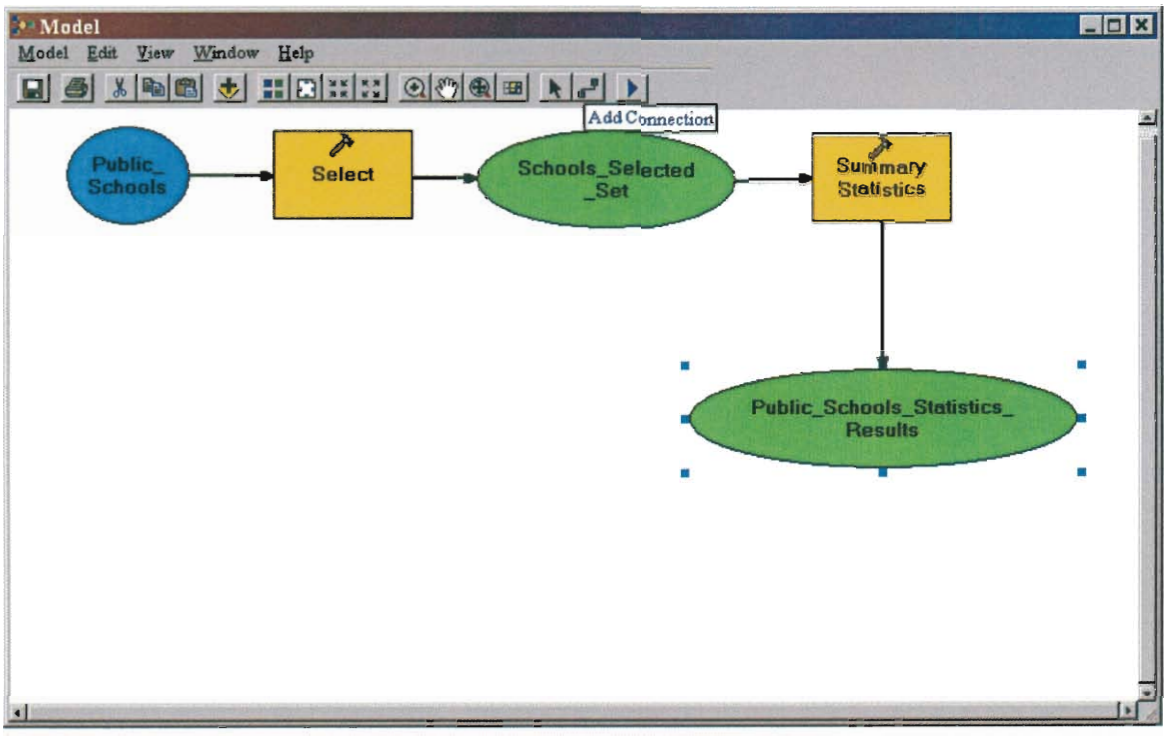


Figure 5. A simple example of a model in the model builder environment window.

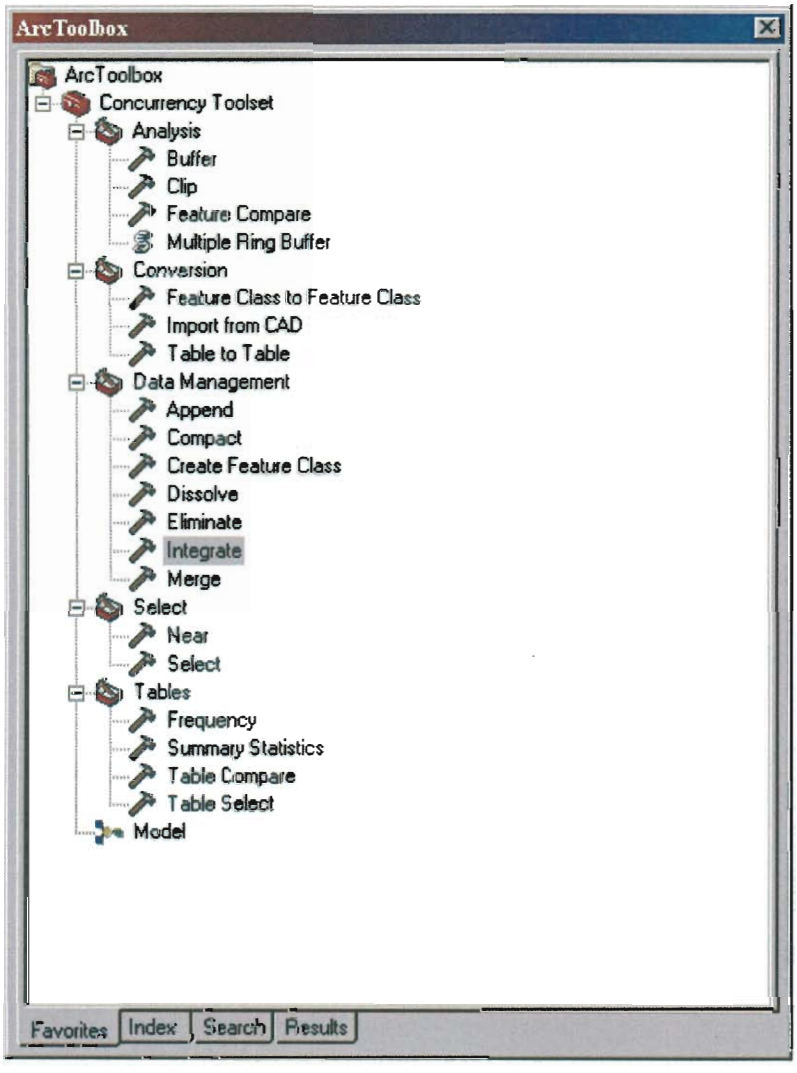
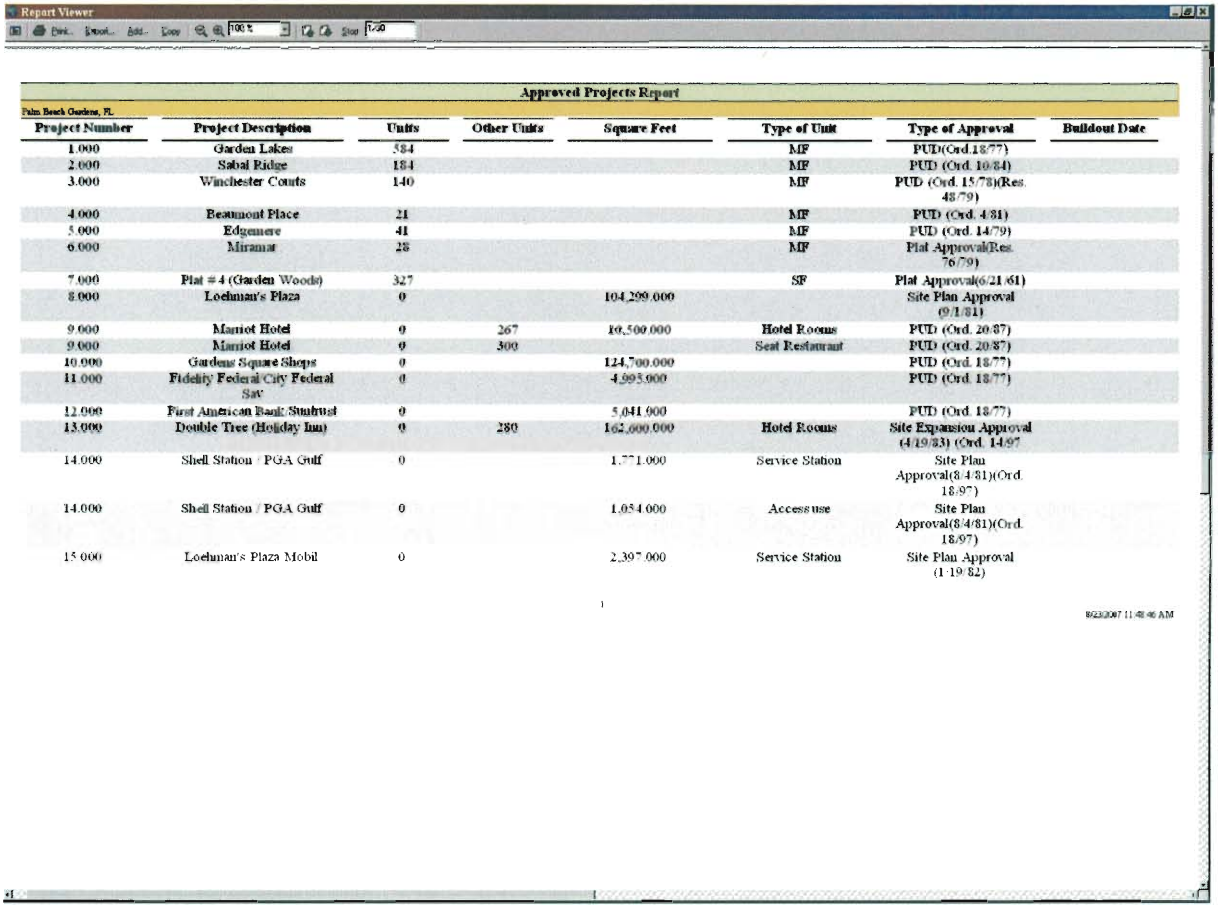


Figure 6. A screenshot showing the custom toolbox created for concurrency.

Development of Sample Reports

As required for this project, the designers developed sample reports for concurrency. Two report generators were used, including the basic report generator in ArcGIS and a more highly customizable report generator in an embedded program called Crystal Reports. These two reporting tools alone provide a robust reporting environment for concurrency reports, and one can tailor the reports to create custom forms using their local government logos and reporting structure. Crystal Reports provides many tools for imbedding various graphs, charts, and even hyperlinks. The most important aspect of the reporting components is that they utilize the GIS database and work directly in the GIS environment, so if the database has been updated or altered, the report will automatically reflect those changes.



Approved Projects Report

Palm Beach Gardens, FL

Project Number	Project Description	Units	Other Units	Square Feet	Type of Unit	Type of Approval	Buildout Date
1.000	Garden Lakes	584			MF	PUD(Ord.18/77)	
2.000	Sabal Ridge	184			MF	PUD (Ord. 10/84)	
3.000	Winchester Courts	140			MF	PUD (Ord. 15/78)(Res. 48/79)	
4.000	Beaumont Place	21			MF	PUD (Ord. 4/81)	
5.000	Edgemere	41			MF	PUD (Ord. 14/79)	
6.000	Miramar	28			MF	Plat Approval(Res. 76/79)	
7.000	Plat # 4 (Garden Woods)	327			SF	Plat Approval(6/21/61)	
8.000	Loehman's Plaza	0		104,299.000		Site Plan Approval (9/1/81)	
9.000	Marriot Hotel	0	267	10,500.000	Hotel Rooms	PUD (Ord. 20/87)	
9.000	Marriot Hotel	0	300		Seat Restaurant	PUD (Ord. 20/87)	
10.000	Gardens Square Shops	0		124,700.000		PUD (Ord. 18/77)	
11.000	Fidelity Federal/City Federal Sav	0		4,995.000		PUD (Ord. 18/77)	
12.000	First American Bank/Sunbrust	0		5,041.000		PUD (Ord. 18/77)	
13.000	Double Tree (Holiday Inn)	0	280	162,000.000	Hotel Rooms	Site Expansion Approval (4/19/83) (Ord. 14/97	
14.000	Shell Station / PGA Gulf	0		1,771.000	Service Station	Site Plan Approval(8/4/81)(Ord. 18/97)	
14.000	Shell Station / PGA Gulf	0		1,054.000	Access use	Site Plan Approval(8/4/81)(Ord. 18/97)	
15.000	Loehman's Plaza Mobil	0		2,397.000	Service Station	Site Plan Approval (1/19/82)	

Figure 7. A sample report of approved projects for concurrency.

Data Model

Overview

The ArcGIS Data Models provide a template for more efficiently implementing similar projects. The data model created for this project will be useful to staff and/or consultants in the development of an individual system at a local government. It will provide a common starting point for development and brings consistency and synergy to local government systems. The data model is not a formal standard, but a tool to ease implementation startup.

The data model was created using the Geodatabase Diagrammer program and Microsoft Visio. Data models depict all the geographic layers, tables, and relationships that exist within a geodatabase. Also, they show the detailed structure of the data layers themselves, such as the fields that are required, preset subtypes and domains. These diagrams act as design templates for database structure and give a local government a blueprint to create its own GIS-based concurrency management system.

The model was developed using several resources to consider as many aspects of concurrency as possible. These include the State Statute, reports from several local governments available on the Internet, and the team's independent research.

Developments

The foundation of the GIS concurrency database consists of developments. Communities grow in size when new development occurs, thus the need for local governments to keep track of progress and growth. Developments are categorized into two sub-categories: approved and pending. Approved projects are those which have already submitted and been issued approval by the appropriate agencies for each of the concurrency categories. Pending or non-approved projects are those seeking approval based on number of units and/or square footage of commercial space. Many government agencies are already keeping track of such developments, yet not all are realizing the benefit of GIS technology to assist them with managing such growth. In addition to mapping the geographic location of such developments, their attributes are the basis for all concurrency analysis. Information about the number of residential units, commercial square footage, hotel units, and date of build out are all vital pieces of information needed in order to make decisions regarding concurrency. Also, hyperlink fields are created here to associate the developments with their concurrency paperwork. This greatly reduces the time needed to locate documents such as concurrency letters, project summaries, and permits in the future.

Base Layers

Base GIS layers were also incorporated into the geodatabase in order to provide additional information to the system user. In most cases, these layers are imported to the system in their native format and require little or no reconfiguration. Such layers as parcels, land use, zoning, political boundaries, and aerial photography aid the user in making decisions. These layers are not the basis for concurrency, but rather provide additional information in regards to the project. For example, parcel data may give the user information about the current owner, property appraiser issued control number, value, legal description, and address. One important feature of the base layers is the aerial photography. This vital source of information can show the user what is actually occurring on the ground at the date of the photograph. Local governments typically fly aerial photography at high resolution (6" to 2') every one to two years providing relatively current information regarding development and what is actually occurring on the ground. In addition to aerials, the local government municipal boundaries should contain current and projected population estimates which are needed to forecast future demands on infrastructure. These base layers provide a great deal of supporting information for decision makers and create a well rounded database from which a user can make sound decisions regarding growth and development.

Transportation

With regards to concurrency, transportation plays a major role. Transportation creates the greatest concurrency challenges for local governments in general. GIS layers regarding this group must be up-to-date and accurate to provide a useful tool for the concurrency managers. Feature classes such as roadway centerlines, concurrency management areas, traffic analysis zones, traffic concurrency exception areas, and planned capital improvements are crucial to this group of data. In addition to simply

identifying the geographic location of such features, attribute data is also needed. One of the most important layers in this group is the roadway centerlines which house information regarding the roadway width, number of lanes, responsible authority, traffic counts and trips, LOS, and annual growth rate. This data is essential in deciding if a roadway segment has reached or will exceed its threshold within the next five years. Other layers like concurrency exception areas help the planner to identify roadway segments where permits are issued even if a development doesn't meet all aspects of transportation concurrency. Usually, such development exceptions are made in community redevelopment areas or other zones where the local government wants to encourage growth.

Schools

The public schools concurrency group consists of GIS layers such as school locations, attendance zones, and capital improvements. Also tabular information regarding the school's capacity, enrollment, and future improvements are needed to calculate utilization rates which affect issuance of permits. As with all aspects of concurrency, capital improvements play a major role in the decision making process, but only those improvements which actually affect concurrency are tracked. For example, building extra classrooms creates extra capacity, but simply remodeling existing facilities may not affect how many students the school can hold.

Water

The potable water utility group consists of layers such as the pipe network, plants, service areas and future improvements. Information regarding plant capacity, customers, and future demands are stored as attributes in each features table. In some cases the local agency responsible for issuing concurrency is not the same authority responsible for providing water service. In such cases the local authorities must work together to assure that adequate water supply is available for current and future developments. If the same organization which is responsible for issuing concurrency is also responsible for the local water supply, then there would most likely be more GIS layers in this group. Layers like valves, junctions, and other nodes might be needed to model the water supply system, so that the local government could reach results needed to answer concurrency related questions.

Sewer

Sewer groups consist of GIS layers, such as, sewer pipe networks, plants, and service areas, and contain attributes for demand. Just as the water group's layers differ depending on who is ultimately responsible for the supply of water, the sewer group's layer composition are also affected depending on the provider of such services. If the local government agency is also responsible for the sewer, then the addition of layer like lift stations, valves, and precise piping information is needed to run the models. The base layers belonging to this group simply provide addition information to the local government as to the location of existing piping, any future system improvements, and to provide a general idea for local government network structure.

Drainage

Drainage features are based on a network of pipes and other methods of water flow. Layers representing the various pipes, inlets and flow direction are captured in the GIS system and provide information regarding the flow of storm water and its discharge locations. In addition to the piping, features like inlets, outfalls, ponds, canals, and rivers provide crucial information to the system's user. Attributes regarding size of pipes, material, inlet elevations, and direction of flow give additional perspective about the local government storm water system. Also, other layers could be added for additional reference and information. Layers like basins, soils, contours, or digital elevation models could be added to the GIS system for modeling and providing additional answers to water management questions. A table stores data relevant to a specific development. This data is usually derived from a form which the developer must submit along with its request for concurrency. Information regarding the proposed discharge location, minimum floor elevation, and associated district permits are stored in the table for easy reference by a planner or concurrency manager.

Solid Waste

Solid waste layers provide geographically based information regarding local disposal and transfer sites along with their capacities. At times this infrastructure is maintained by a private company or external government agency, but the issuing of concurrency related permits is still in the hands of the local government agencies making such data important to planners. Users can map local sites and even make new calculations regarding each new development based on the number of units proposed. In addition, schedules for pick up days and types of materials collected often need to be accounted for in concurrency.

Parks and Recreation

Parks and recreation data is usually maintained by the local government agencies. They are solely responsible for assuring adequate acreage and facilities exist for local residents to use. Maintaining such information in a GIS system is usually already being done making maintenance of such data less troublesome. Area parks are mapped in a feature class along with attribute data regarding the parks name, total acreage, developed acreage, facilities, and future enhancements. When a new development is being considered, a basic calculation can be made using total acreage of developed and proposed parks and total population and estimated population. Other specific analysis can be performed based on a specific development or specific park. For example, three mile buffers around the local parks can be created to check if there are pockets of development outside this requirement. This type of analysis could be useful when figuring out where new park facilities are needed.

Other Facilities

Other facilities are not called out as required in Chapter 163, Florida Statutes, but are required by the local government themselves. Often this is the case for police, fire and other public facilities. These facilities can be incorporated into the data model for specific local governments on a case by case basis.

All these groups and their GIS layers create a single database from which planners can draw upon much useful and critical data needed to make decisions regarding concurrency. An important factor to note is that the concurrency data model is designed to provide the base data required to make such decisions, yet a local government agency may find a need to incorporate additional GIS information to fully complete its concurrency GIS system. As noted before, some local government agencies may or may not be fully responsible for supplying citizens with the appropriate infrastructure, but the local government is still the agency responsible to issue such permits. The more information put in the hands of the decision makers, the more informed decisions they are able to make and better serve the public.

Pilot Project

Selection of Organization to Conduct Pilot Project

The team selected the City of Palm Beach Gardens as the local government agency in Florida to work with on a pilot project basis. LBFH interviewed members of the City staff, reviewed existing data, and reported to them on the plan to install the system. The team attempted to implement items described in the system design above. A wide spectrum of data from various agencies was requested, acquired, and reviewed. Most data was useable in its existing format or with minor additions; however, some data did not exist in the necessary format. In such cases, a framework for the data was created but fields and layers were void of data at the time of this report.

LBFH INC.
CONSULTING CIVIL ENGINEERS, SURVEYORS & MAPPERS

CIVIL
AGRICULTURAL
WATER RESOURCES
WATER & WASTEWATER
TRANSPORTATION
SURVEYING & MAPPING
GIS

"Partners for Results
Value by Design"

3550 S.W. Corporate Pkwy.
Palm City, FL 34990
(772) 286-3883
Fax: (772) 286-3925
www.lbfh.com

July 11, 2007
Project No.: 7002 S06

Kara Irwin
City of Palm Beach Gardens Growth Management Administrator
10500 North Military Trail
Palm Beach Gardens, FL 33410

RE: Concurrency Management GIS – Pilot Project

Dear Ms. Irwin:

LBFH Inc. and the Treasure Coast Regional Planning Council (TCRPC) are looking forward to working with the City of Palm Beach Gardens on the above referenced project. This project is funded by a grant from the Florida Department of Community Affairs. During this project we will work with City staff to create and test a GIS-based system to assist with concurrency management, planning, budgeting, and monitoring. This project is intended to supplement any existing tools or methods used in concurrency management.

The project timeframe is July and August 2007 to deliver results to the Department of Community Affairs, but the City may choose to continue with this project at its own discretion.

LBFH and TCRPC agree to deliver a copy of all results and deliverables submitted to the Department of Community Affairs for this project. We appreciate your commitment to this pilot project and the time you are investing in it. If this is agreeable to you, please sign and return a copy to us. If you have any questions, please call me at 772-219-2963. We look forward to working with you on a successful project and one that other local governments can look to as an exemplary tool.

Sincerely,

LBFH Inc.

DSC

David S. Coleman, GISP
Client Service Manager

Agreed: City of Palm Beach Gardens		Agreed: Treasure Coast Regional Planning Council	
Name:	Kara L. Irwin	Name:	MICHAEL J. BUSHA
Signature:		Signature:	
Title:	Growth Management Admin	Title:	As its EXECUTIVE DIRECTOR
Date:	7/12/07	Date:	7/12/07

FIGURE 8. Letter of Agreement to conduct a pilot project.

Palm Beach Gardens Overview

The City of Palm Beach Gardens is a medium size municipality located in northern Palm Beach County, Florida. The city boundary is irregular, but the city limits generally cover the area from the Intracoastal Waterway on the east, Donald Ross Blvd. on the north, Northlake Blvd on the South, and past Beeline Highway on the west. It covers 56.16 square miles in area (source: www.pbgfl.com), with the largest land use type being Conservation. Residential land consists of 23% of the area. Maps available at http://www.pbgfl.com/ show the city limits and designated land uses.

The City has a population of 58,022 (source www.pbgfl.com) and has been experiencing rapid growth in recent years. Approximately 85% of the residents are permanent residents (source: University of Florida Bureau of Economic and Business Research (BEBR)). The future population projection for 2010 is 61,519 (source: Palm Beach Gardens, Evaluation and Appraisal Report, 2006).

From review of the GIS data and analysis in this project, the amount of pending and approved residential and commercial development can be tabulated. Based on data from the City, there are 32,125 residential units and 21,546,527 square feet of commercial development approved. There were numerous projects under various stages of review. It was proposed in the data model to reformat the description field to separate residential and commercial development and assign them to numeric fields such that the amount of pending residential units and commercial square footage could be summarized at any time.

Data and Procedure Review

The team met with Palm Beach Gardens Growth Management Administrator on July 12, 2007 and formalized an agreement to conduct the pilot project at the City. Several officials at the City were interviewed throughout the project including the Growth Management Administrator, GIS Manager, GIS Technician, Planning Manager, City Forester, City Engineer, and Planners.

All data the City uses for GIS and in the concurrency process was requested, and several items were received throughout the project. A list of the items received is summarized in Table 2. The team received the entire GIS database for the City, which included recent data from Palm Beach County and Seacoast Utility Authority that is used as primary data in the City GIS. A detail of specific GIS datasets received and deemed necessary for this project can be found in the data model diagram.

The team reviewed the geodatabase from the City of Palm Beach Gardens. A great deal of base data needed for the GIS-based concurrency management system was found in the geodatabase. This included many feature classes for which the City was the primary creator. It also included feature classes that were generated from other sources, such as parcels, which were clipped from a larger file provided by the County, and a water and a sewer geodatabase that was clipped from Seacoast Utility Authority.

Further due diligence was necessary, thus several other local governments were contacted for GIS data. The team contacted and requested data from the following agencies: Palm Beach County School District, Palm Beach County Traffic Division, The Solid Waste Authority, South Florida Water Management District (SFWMD), and Northern Palm Beach County Community Improvement District (NPBCID). The team received data from all of the agencies with the exception of NPBCID, where no additional relevant data existed (the team had in possession the NPBCID basins file from the City).

Data Received	Organization Providing Data
PBG GIS Data	City of Palm Beach Gardens
Palm Beach County GIS Data	City of Palm Beach Gardens (originally from Palm Beach County)
Water and Sewer GIS Data	City of Palm Beach Gardens (originally from Seacoast Utility Authority)
Palm Beach Gardens Comprehensive Plan	City of Palm Beach Gardens
Palm Beach Gardens Land Development Rights	City of Palm Beach Gardens
Palm Beach County Comprehensive Plan	Palm Beach County
Palm Beach Gardens Evaluation and Appraisal Report	City of Palm Beach Gardens
Palm Beach Gardens Capital Improvement Plan	City of Palm Beach Gardens
Palm Beach Gardens Concurrency Log	City of Palm Beach Gardens
Palm Beach Gardens Concurrency Checklist	City of Palm Beach Gardens
Palm Beach Co. School District Capital Improvement Plan	Palm Beach County School District
Palm Beach Co. School District Comprehensive Plan	Palm Beach County School District
Palm Beach Co. School District GIS Data	Palm Beach County School District
Seacoast Utility Authority Water and Wastewater Master Plan	Seacoast Utility Authority
Seacoast Utility Authority Capacity Analysis Report	Seacoast Utility Authority
Solid Waste Authority Capacity Letter	Solid Waste Authority
Solid Waste Authority Integrated Solid Waste management Plan	Solid Waste Authority
Solid Waste Authority GIS Data	Solid Waste Authority
Statewide Transportation Concurrency Exception Area List	Florida Dept. of Community Affairs
Palm Beach County Traffic GIS Data	Palm Beach County Traffic Division
Cimarron Cove Concurrency Documents	City of Palm Beach Gardens

Table 2. List of concurrency related documents and data used in this project.

The City relies heavily on information from other government agencies to determine concurrency status. The City maintains primary responsibility for development approval, parks and recreation concurrency and City roads concurrency in the growth management department. Thus, concurrency approval is provided from various agencies as summarized below:

Parks and Recreation - The City of Palm Beach Gardens, Growth Management Dept.
City Roads – The City of Palm Beach Gardens, Growth Management Department
County Roads – Palm Beach County, Traffic Division
Drainage – The City of Palm Beach Gardens, Growth Management Department
SFWMD Drainage – South Florida Water Management District
NPBCID Drainage – Northern Palm Beach County Improvement District
Public Schools – Palm Beach County School District
Solid Waste – Solid Waste Authority
Water – Seacoast Utility Authority
Sewer – Seacoast Utility Authority

Table 3. List of the concurrency public facilities required in the Florida Statutes, and the organization primarily responsible for the facilities in the City of Palm Beach Gardens.

The City of Palm Beach Gardens was very interested in the ability to see relevant data regarding all public facilities for informational purposes. Some of this information was not available in-house at the start of this project. Additional information on these facilities can assist with better decision making and intergovernmental coordination.

Several items unique at the City of Palm Beach Gardens were discovered during the concurrency research progress. Land Development Regulations for the City (Division 3, Section 78-83) requires a summary log for concurrency. The summary log includes the Petition #, Project Name, Initial Submittal Date, and Date of Complete Application. The summary log is being incorporated into the GIS-based concurrency management system. The City has also developed a concurrency checklist. Many of these items were also included in the data model.

A forbearance agreement affects concurrency for certain developments. Also some developments were grandfathered in as to their approved trips. The status of these features is being stored in the GIS.

Another characteristic of the City concurrency tracking is the aspect of equivalency. Equivalency comes into play as developments do not use all of the residential units or commercial square footage for which they were approved, or if they submit revised plans that use an amount of residential units or commercial square footage that varies from the original amount. The team included fields in the data model which assist with tracking equivalency, specifically whether or not it has equivalency, and the amount of unused units or unused commercial square footage.

The research on this project revealed that there are many methods used in concurrency, many governmental organizations involved, and many nuances that can be found for each local government.

Implementation Plan

An implementation plan is necessary to provide the local government the best possible use of this concurrency management system. During this initial step research into the local LOS, concurrency procedures, comprehensive plans, concurrency documents and capital improvement plans are preformed to develop a strategy and in preparation of assembling such a system. This phase includes a great deal of research and interviews with the concurrency management staff. Since local components of concurrency differ region by region, these interviews and review of materials are essential to the developers of this database in order to tailor it to their needs. Conducting this research at the beginning of such a complex project assures that the development of the database is comprehensive and most of all useful to the local government.

System Development

Once the initial phases of system development are reviewed, and a plan has been established, the actual construction of the database and its associated documents may take place. This is a critical step in providing a useful tool to the end user. Any attempt to use existing GIS data is crucial. This will save time and make use of information already being maintained by the local government. Once all GIS ready data has been acquired and loaded into the geodatabase, additional information must be added. This additional data may be as simple as adding a few fields to an existing GIS layer, or it may mean developing and constructing layers which did not exist. Also, data must be populated as attributes to the appropriate fields. This data is the backbone of the system and is critical in providing answers to the staff. In addition to data, documents relating to concurrency make up a substantial component of the system. Concurrency letters, project summaries, and permits must be organized, scanned, and labeled, so one can create hyperlinks to the documents for access through the interface. Once the framework has been established the team can work on customizing the interface, developing tools for analysis, and reporting required by planners.

Data Conversion

After research on the City's data and procedures, the team created a customized data model for the City of Palm Beach Gardens. The City along with Palm Beach County provided all available GIS data layers. This was a good starting point, but the team quickly realized that much information regarding concurrency was not present. Fields had to be added to the layers to hold information vital to concurrency, and tables had to be developed to house information regarding projects and infrastructure. For example, the City of Palm Beach Gardens was already maintaining approved and pending projects within its city limits, but fields to house hyperlinks, build out dates, and other relevant information was not present. Other layers like public schools provided the user with geographic location of the buildings, but did not contain data regarding the capacity or enrollment. Also, fields representing four subsequent years had to be added to provide the user with projections as to growth. Without such information the data becomes only a snapshot of current infrastructure and its capabilities to maintain the current LOS.

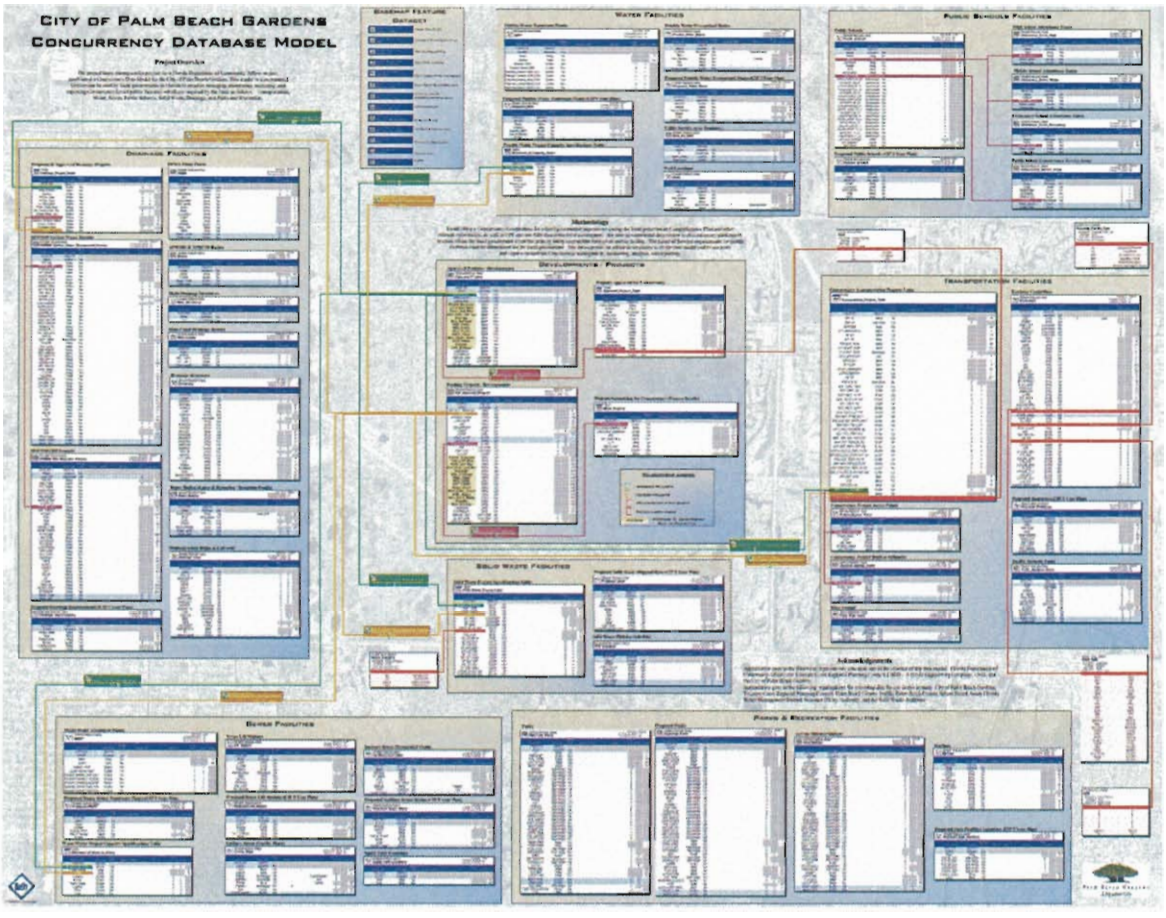


Figure 9. A diagram of the customized City of Palm Beach Gardens data model. A full size diagram can be found in Appendix C.

The data was input into the data model. Fields were added where needed. For instance fields containing traffic counts and trips were added. Fields were reconfigured in some cases. For example, there was a field that included number of units in a development and square footage of commercial grouped in one field in text format. The information was separated and numeric fields were created in the table to allow the GIS to sum up the pending, approved and existing units, and commercial square footage.

Most GIS data and project related tables and GIS files were left in their native format. This was the goal in as many cases as possible to reduce the amount of change in business procedure that may be necessary in a full implementation. A change in business procedure may be necessary to develop a more efficient process.

As a result of our discovery process and additional meetings with the City staff, the team identified the need for alterations to the data model. The data model was amended to reflect those changes, and the final data model is included in this report.

Installation

The team loaded the geodatabase on an external hard drive and delivered it to the City on August 16, 2007. Providing the system on an external drive gave the City an opportunity

to review the data and its format prior to full implementation. First, the GIS staff will review the database and tools created as part of the system to ensure they work properly and develop a strategy for converting the data to the City computer network. This will utilize ArcSDE software, a database access software for data stored in a relational database management system (RDBMS). This software is now part of ArcGIS Server which the City has obtained. The use of this project on an ArcGIS Server platform is discussed later. When working with other local governments on such a concurrency management system, the team will recommend the initial deliverable in the same format as provided to the City of Palm Beach Gardens or on an ArcGIS Server platform. Local government staff and/or consultants can assist in fully integrating the database and its tools into their enterprise GIS system.

Training

A brief training session was conducted at the City on August 16, 2007. The team showed the staff the data layers and tables which comprise the system and demonstrated navigation through the interface. Each group's layers were reviewed and explained as to their importance in the overall system design. Important functions of the interface were highlighted, and some brief demonstrations were performed to show some basic capabilities of the system. This demonstration and training was given to staff knowledgeable of GIS, so the session focused on the system's capabilities and usefulness and excluded basic GIS interface operation.

Maintenance

Maintenance of the system can be performed in an ongoing manner at the City. In order to minimize the maintenance for the system, existing spreadsheets are linked in the GIS. Thus there is no additional maintenance needed in these cases. When viewed in the GIS they are automatically directed toward updated spreadsheets that the City maintained as part of their current concurrency methods.

Most of the geographic features are already maintained in GIS as well. In some instances the City is not responsible for maintaining the layers. For example, schools and proposed schools are maintained by the Palm Beach County School District. Major roadways and the traffic counts are maintained by the County. Potable water and sewer maintained by Seacoast Utility Authority. Solid waste facilities are maintained by the Solid Waste Authority. Still, there are many layers which the City must maintain and keep current. Most important are the layers regarding current and future development. These layers are the key to accurate reporting and must be maintained on a regular basis. In all there is very little additional maintenance required of City staff.

Results

Appendix A shows the final detailed Geodatabase Report, or technical specifications, of the City of Palm Beach Gardens Concurrency Geodatabase. The report summarizes the structure of the entire database in great detail. The report lists all the GIS layers, tables, relationships, subtypes, and domains which were necessary in developing the system. The database designer can see all the fields which store the data and get detailed

information regarding the field structure of the database. Also, information regarding the database's spatial components, such as the coordinate system and spatial extents, are present in this report.

Results of the implementation were positive. The City sees value and benefit in the system. Throughout the initial phases of creating this system, there was always support for its further development. The team and everyone involved could foresee the need of such a device to track, analyze, and report on concurrency. Once the prototype version of the system was presented, planners and GIS specialists alike realized that this tool could save them time and make their jobs easier and more productive. Planners spend much time conducting research and attempting to locate documents related to a particular development which may have been archived long ago. A major benefit of this system is its ability to store all related concurrency documents and make them accessible via a graphical interface.

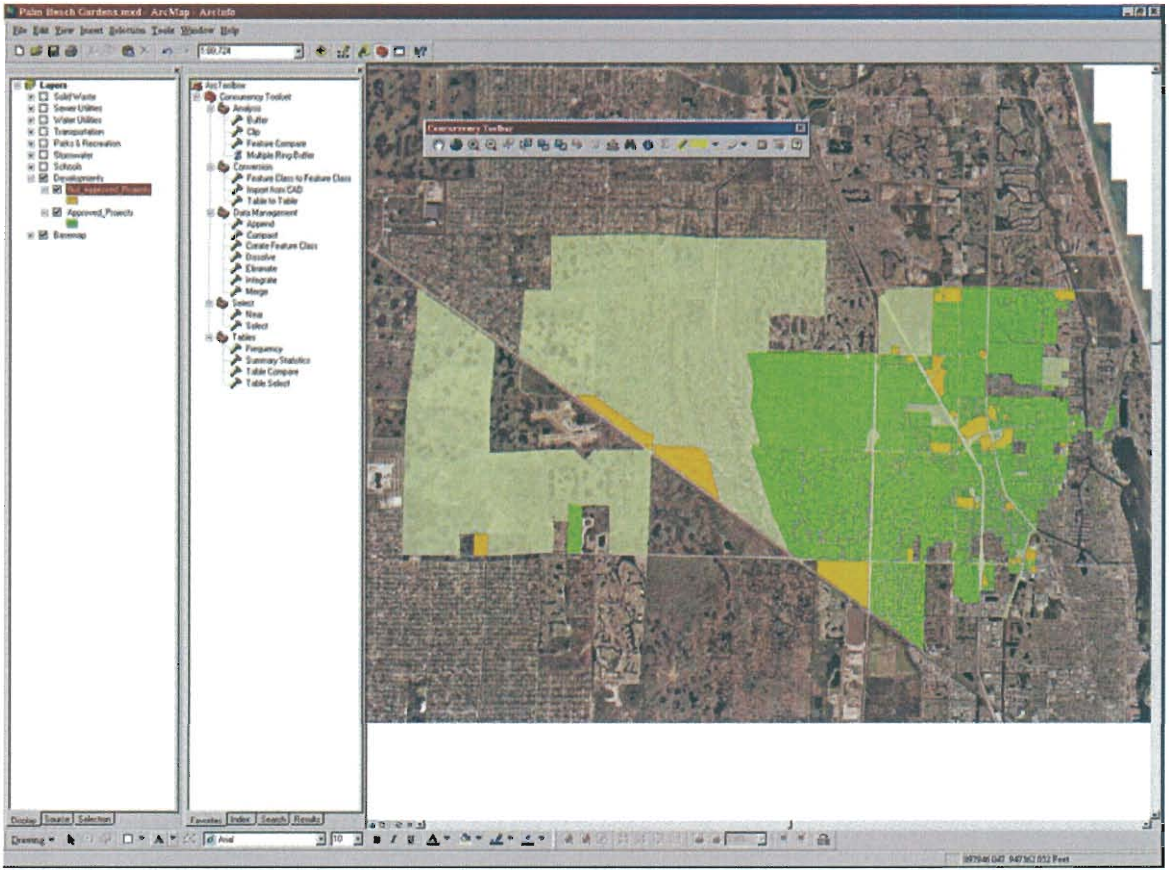


Figure 10. An example of the concurrency interface, with approved and not approved projects shown.

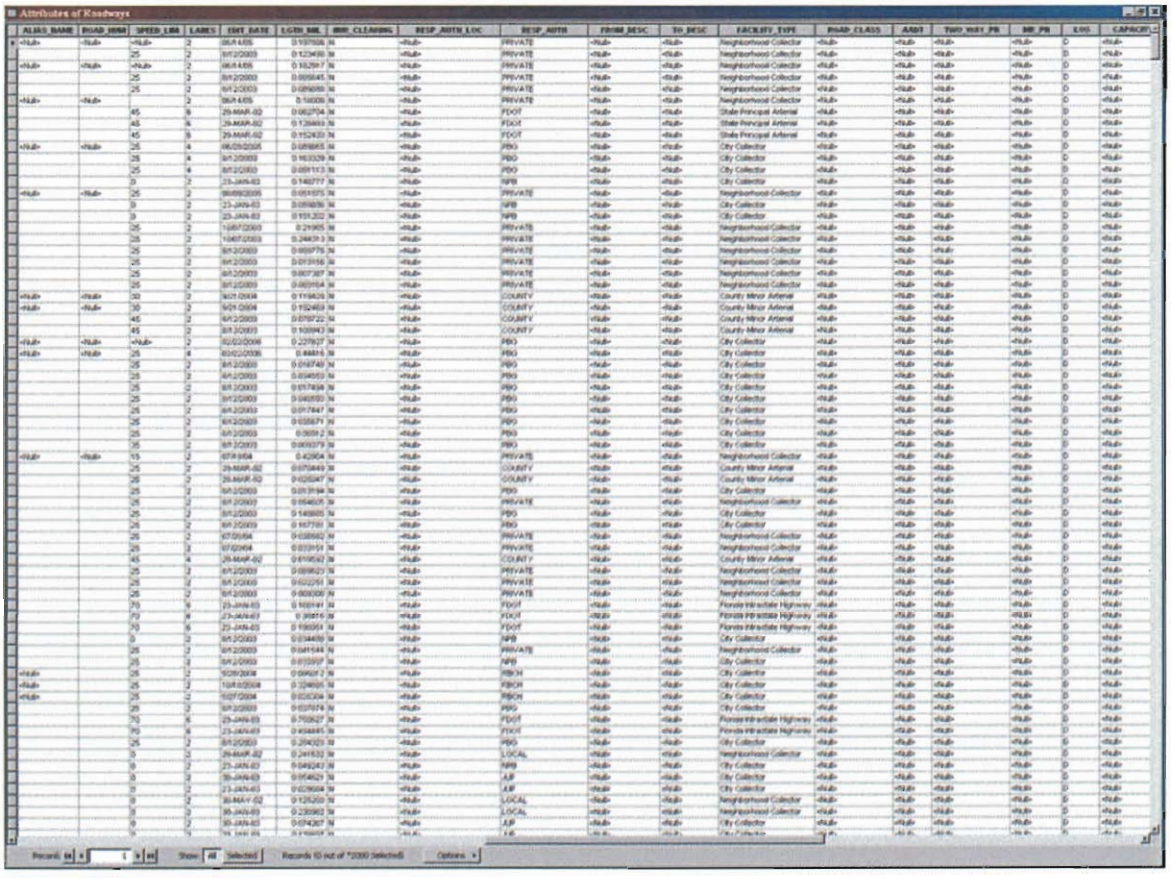


Figure 11. An example of the traffic concurrency data tables.

CITY OF PALM BEACH GARDENS

10500 N. MILITARY TRAIL • PALM BEACH GARDENS, FLORIDA 33410-4698

August 17, 2007

To whom it may concern:

Re: GIS-based Concurrency Management System Pilot Project

The City of Palm Beach Gardens is pleased to have worked with the team of LBFH, Inc. - A Boyle Engineering Company and the Treasure Coast Regional Planning Council through a grant from the Florida Department of Community Affairs. The City participated in a Pilot Project for a GIS-based Concurrency Management System. The team presented a general system design of which we saw a great deal of potential to assist with the management, monitoring, and analysis of Concurrency. They interviewed several people within the City and other governments that we deal with to get input on our procedures, methods, and data. They reported to us with a model and installed a customized, detailed system for the City. Though many data layers still need to be populated with our data, the internal feedback has been very positive.

Through brainstorming sessions, several enhancements have been formulated for potential future phases, such as the migration of this system to an ArcGIS Server platform for easier use in a browser or explorer environment and more customized reports and tools. These aspects will allow the average everyday user the ability to increase their productivity at work and decrease down time for research and locating files and plans.

We envision many benefits of this system at full implementation, such as easier access to information, on a development by development basis, getting more comprehensive as well as historical information, and getting a spatial perspective of the required Concurrency facilities as they related to pending, approved, and existing developments. There is a great deal of potential for this system to be implemented at all local governments in Florida. With some modifications, this system could be adapted for municipalities and organizations throughout the state and beyond. We are pleased to have participated in this project and recommend the Department to support further development of this project.

Aries Page
GIS Manager
City of Palm Beach Gardens
561-799-4278
apage@pbgfl.com

Figure 12. Letter from Palm Beach Gardens as to the completion of the pilot project and general comments.

System Benefits

A variety of benefits can be realized through the use of this system. The system adds a geographic and spatial component to concurrency analysis and reporting in a GIS interface. The system allows a user to graphically visualize concurrency in map and tabular format previously unavailable.

The actual volume of information available to a user can be increased by using this system. For example, the City did not have GIS data on public schools but has obtained it through the data acquisition process in this project. They now can use this data to help answer questions relating to school concurrency.

Another area of benefit will be in the management of information and the access to documents in a centralized location and searchable by project. Many documents are used in concurrency management, which will be linked and viewable in the system through use of hyperlinks. Also, since the reporting tools are imbedded into the software, they allow for reporting of current data. When the database gets updated or figures modified to reflect a change of status of a development, the report reads the database and updates are made.

Reports for local government managers can be created in this system. They can have summary reports of items relating to concurrency so that they can have answers for councils and boards, as well as better information to make well informed decisions.

Intergovernmental coordination is a strong benefit of this system. Since detailed reports can be created, they can be tailored to report on and for submittal to intergovernmental agencies. In this manner, better information can be transferred to local governments who need to work together for concurrency.

An important side-effect of creating such a system is that it provides potential statewide standardization for concurrency process. Through a thorough review of the State and local government statutes and concurrency related documentation the team has created a general model for GIS based concurrency. This model includes all the State required components of concurrency, as well as, incorporating the inner workings of concurrency on a local level. This model is designed to function for any local government wishing to implement such a system. It can assist a larger municipality with executing and modernizing its current concurrency management system while assisting smaller local governments with developing or putting a concurrency plan in action. If local governments are utilizing the same model for concurrency it will be easier to share and relate data between cities and municipalities responsible for managing concurrency.

Recommendations

Future Implementations at Local Governments

Local governments will be able to install the system as-is with minor modifications based on their internal data formats and procedures. A recommended approach would be to conduct a concurrency data and procedure review and present an implementation plan. After a consensus is arrived with the stakeholders, the implementation will begin with either a partial or full data conversion. The partial data conversion can be anything from a pilot project that includes all aspects of the system for a small area, or can be one or more of the modules, such as, transportation and schools which are often considered the highest priorities.

The requirements for the system to work well revolve around the availability of the appropriate software, staff and data. The basic software that is needed to operate the system is ArcGIS ArcView. Over 80% of local governments in Florida own ArcView. This requires little or no additional software cost for current owners and a minimal investment for non-owners.

The following is an excerpt from ESRI regarding its ArcGIS ArcView software:

ArcView is full-featured geographic information system (GIS) software for visualizing, managing, creating, and analyzing geographic data. Using ArcView, you can understand the geographic context of your data, allowing you to see relationships and identify patterns in new ways. ArcView helps tens of thousands of organizations make better decisions and solve problems faster.

Source ESRI.

Key Features of ArcView relating to concurrency:

- Author maps using simple wizards or create custom templates making future mapping consistent and effortless.
- Provides a full set of geoprocessing, and statistical tools for analysis.
- ArcView 9.2 is based on the Microsoft Object Model (COM) which enables customization using many common scripting languages.
- View satellite images and high resolution ortho-rectified aerial photography.
- Generate detailed custom reports and charts using Crystal Reports.
- Ability to export or embed custom maps and reports in other documents or applications.

It is recommended that a knowledgeable GIS staff member (e.g., GIS Specialist or GIS Coordinator) be involved with all phases of the project if possible. The staff member will also be the primary operator of the system in the ArcView environment and the primary coordinator of maintenance. The GIS Specialist would work closely with a designated

planner. Potentially, this could be one staff member depending on the amount and the make-up of the staff.

A training session will be scheduled at the end of the implementation to get the staff familiar with the system, data and analysis capabilities available, and the responsibilities for maintenance of the system.

As the implementation is completed, methods including the establishment of direct links from existing concurrency tracking documents will be established so that the most up-to-date data is used at all times. Data will be updated at various intervals, but minimum updates should be annual to reflect the new Capital Improvements Program and population projections, and monthly for proposed developments. All efforts will be made to ensure that the required maintenance is minimal. The return on investment will be in time saved to look up data in the future, and by better analysis and reporting as to concurrency status.

Summary of a Local Government Installation

- Concurrency Data and Procedure Review
- Implementation Plan
- Implementation (with partial or full Data Conversion)
- Training
- Remaining Data Conversion (if not completed during Implementation)
- Maintenance (at least monthly)

Proposed Enhancements

As this project concludes, the project team proposes to continue development of this system to make it more accessible and easy to use for a larger group of end users. This will be accomplished by developing fully a functional concurrency toolset and interface. In addition, particularly for larger local governments, implementing the project on ArcGIS Server is recommended. Development of this project on an ArcGIS Server platform in addition to the creation of the concurrency geodatabase and the ArcView interface (as performed in this project) will enable those with no GIS experience to access a customized interface in an Intranet/Internet environment. ArcGIS Server software developed by ESRI is a relatively new platform that many local governments in Florida have recently implemented or are considering.

The following is an excerpt from ESRI regarding its ArcGIS Server software:

ArcGIS Server is a complete and integrated server-based GIS. It comes with out-of-the-box, end user applications and services for spatial data management, visualization, and spatial analysis.

ArcGIS Server offers the following advantages:

- *Lower cost of ownership through centrally managed, focused GIS applications that can scale to support many users.*
- *Browser-based access to GIS.*

- *Integration with other enterprise systems such as customer relationship management (CRM) or enterprise resource planning (ERP) systems using industry-standard software. ArcGIS Server provides the foundation for geospatially enabling a service-oriented architecture (SOA).*

- *Support for interoperability standards in both the GIS domain (Open Geospatial Consortium) as well as the broader information technology (IT) domain (W3C).*

- *Ability to create custom applications using .NET or Java.*

ArcGIS Server complements ArcGIS Desktop by allowing GIS analysts to cost-effectively author maps, globes, and geoprocessing tasks on their desktop and publish them to ArcGIS Server using integrated tools. GIS functions can then be delivered as services throughout the enterprise.

Source ESRI.

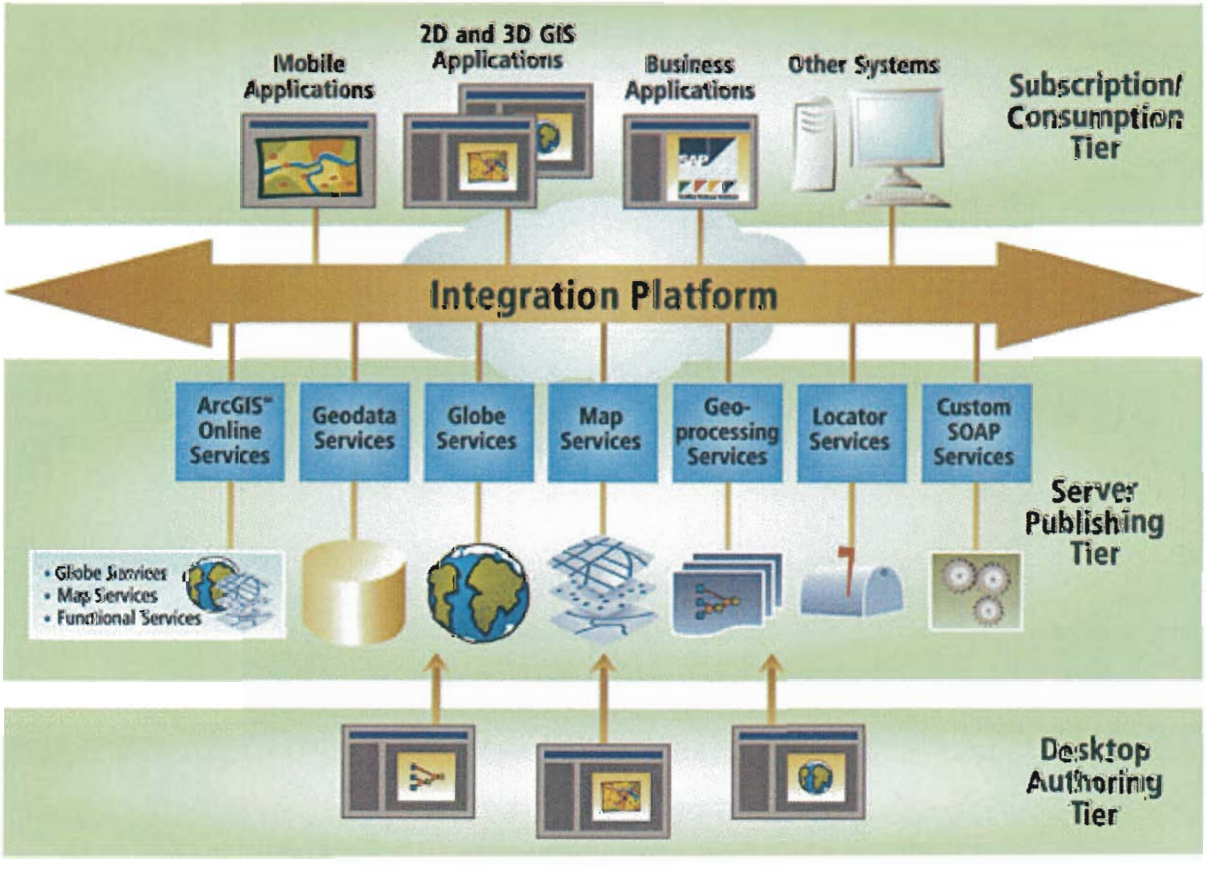


Figure 13. Source: ESRI. A diagram showing the ArcGIS Server integration platform, the recommended platform for an advanced, full implementation of GIS-based concurrency management system. The "services" represent the potential applications that can be provided with future enhancements.

The team is planning further development of a fully functional and more user-friendly version of the GIS-based concurrency management system. A key component is the need to develop a fully functional "concurrency toolset" which would enable novice GIS users to navigate through the various data layers and tables associated with each component of concurrency and perform analysis which would assist planners in their decision making process. ArcGIS products can be customized to create additional tools and interfaces specific to a particular industry. Since most planners and city managers are not expert GIS users, the creation of a custom toolset is perfect to navigate, view, query, and report on the multitude of layers which comprise this database. In addition to the full concurrency toolset, customization of the interface will help achieve a more user-friendly and intuitive environment.

Programming and Customization

All ArcGIS software (e.g., ArcView, ArcGIS Server, etc.) is based on ArcObjects and may be customized. Basic out of the box ArcGIS software is meant to be used by GIS professionals and can be overwhelming to the inexperienced user. Fortunately, ArcGIS can be customized through ArcObjects and various scripting languages. For starters, and without any writing or editing of existing code, unrelated buttons and toolbars can be removed, and only those buttons and toolbars relevant to concurrency can be made available to the end user. This will clean up the interface and provide a more simplistic and relevant control set-up. To add additional functionality and ease of use, ArcObjects and Python can be used to develop specific buttons and actions that are necessary for concurrency and are not readily available in the standard version of ArcGIS. These buttons can be created to allow the performance of tasks which prior to customization would take many steps to accomplish, such as creating a report or developing buffers of influence for proposed developments.

Conclusion

A GIS-based concurrency management system was designed by the team of the TCRPC and LBFH, Inc. – A Boyle Engineering Company through a grant from the Florida Department of Community Affairs. The difficulties in managing concurrency and the variety of methods used by local governments in Florida is reason enough for such a system. In addition, all the components which make up concurrency are geographically based which makes using a GIS optimum. Local governments that implement this management system will have a standardized management system that provides benefits for management and analysis of concurrency.

The system was tested in a pilot project environment at the City of Palm Beach Gardens. City data and relevant interlocal data was reviewed and modified in several cases to fit into the system. Accurate and up-to-date data is the backbone of a successful GIS, as well as any management system. Often, this is the most time consuming aspect of building a GIS. The short time frame did not allow for a full implementation with data fully populated, but the system was tested, and several benefits are envisioned, such as data management, document management, concurrency analysis, assistance with concurrency determination for new developments, reporting, and intergovernmental coordination.

References

World Wide Web:

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City of Palm Beach Gardens – http://www.pbgfl.com/
Palm Beach County - http://www.co.palm-beach.fl.us/
Palm Beach County School District - http://www.palmbeach.k12.fl.us/
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Publications:

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"Integrated Solid Waste Management Plan" Solid Waste Authority of Palm Beach County, June 2006.

Acknowledgements

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Appendices

The following appendices are supplement to this report and are attached:

- Appendix A – Detailed Geodatabase Report (Technical Specifications)
- Appendix B – Full size version of Florida Concurrency Database Model
- Appendix C – Full size version of the City of Palm Beach Gardens Concurrency Database Model
- Appendix D – CD-ROM containing full size data model graphics, digital geodatabase (.mdb file), Detailed Geodatabase Report (Technical Specifications)

This report was prepared and reviewed by:

LBFH, Inc. – A Boyle Engineering Company
3550 SW Corporate Pkwy.
Palm City, FL 34990
David S. Coleman, Associate
772-286-3883

The Treasure Coast Regional Planning Council
301 East Ocean Blvd., Suite 300
Stuart, FL 34994
Michael Busha, Executive Director
772-221-4060

The City of Palm Beach Gardens
10500 North Military Trail
Palm Beach Gardens, FL 33410
Kara Irwin, Growth Management Administrator
561-799-4100

APPENDIX A

Geodatabase Reporter.NET

Developed by The Applications Prototype Lab, ESRI® Redlands

Schema Creation

Creation Date	2007-8-23 10:30:48
Creator	henry-m/BOYLE on WS-07

System Information

Operating System	Microsoft Windows NT 5.1.2600 Service Pack 2
.Net Framework	2.0.50727.832
Reporter	1.0.0.0

Geodatabase

Workspace Type	Personal Geodatabase

Table Of Contents

Domains

Domain Name	Owner	Domain Type
AncillaryRoleDomain		Coded Value
Built		Coded Value
City		Coded Value
EnabledDomain		Coded Value
Existing		Coded Value
Limit		Coded Value
LOS		Coded Value
Material		Coded Value
Park_Type		Coded Value
Range		Coded Value
Resp_Auth		Coded Value
Roadway_Facility_Type		Coded Value
Section		Coded Value
Size		Coded Value
Subdivison		Coded Value
Township		Coded Value
Waste_Category		Coded Value

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AncillaryRoleDomain

Owner
Description
Domain Type Coded Value
Field Type Small Integer
Merge Policy Default Value
Split Policy Default Value
Domain Members

Name	Value
None	0
Source	1
Sink	2

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Built

Owner
Description Status of Buiding Process
Domain Type Coded Value
Field Type String
Merge Policy Default Value
Split Policy Default Value
Domain Members

Name	Value
Not Built	No
In Progress	IP
Built	Yes

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City

Owner
Description City/Municpal Code
Domain Type Coded Value
Field Type Small Integer
Merge Policy Default Value
Split Policy Default Value
Domain Members

Name	Value
0	0
52	52

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EnabledDomain

Owner
Description

Domain Type	Coded Value
Field Type	Small Integer
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	
Name	**Value**
False	0
True	1

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Existing

Owner	
Description	Existing Landuse
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	
Name	**Value**
A	A
C	C
CONS	CONS
I	I
MXD	MXD
P	P
R	R
REC	REC
ROW	ROW
SAN	SAN
UC	UC
V	V
W	W

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Limit

Owner	
Description	In or out of the City
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	
Name	**Value**
in	in
out	out

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LOS

Owner	
Description	Level of Service
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	

Name	Value
A	A
B	B
C	C
D	D
E	E
F	F
CRALLS	CRALLS
NA	NA

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Material

Owner	
Description	Material
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	

Name	Value
PVC	PVC
Ductile Iron	Ductile Iron
Cast Iron	Cast Iron
Unknown	Unknown
Clay	VCP
Asbestos Concrete	AC

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Park_Type

Owner	
Description	Park Type
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value

Split Policy	Default Value
Domain Members	
Name	**Value**
Neighborhood	N
Community	C
Urban	U
Primarily Specialized	PS
Joint School Use	JSU

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Range

Owner	
Description	Range
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	
Name	**Value**
41	41
42	42
43	43

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Resp_Auth

Owner	
Description	Responsible Authority
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	
Name	**Value**
FDOT	FDOT
JUNO	JUNO
JUP	JUP
LAKE	LAKE
LOCAL	LOCAL
NPB	NPB
NPBCID	NPBCID
PB	PB
PBG	PBG
PBS	PBS
RBCH	RBCH
WPB	WPB
PBG	City

PRIVATE	PRIVATE
PRIVATE	PRIV
SEACOAST	SEACOAST
SFWMD	SFWMD
PUBLIC	public
PRIVATE	private
COUNTY	COUNTY
STATE	STATE
COUNTY	PBC
PRIVATE	Private
COUNTY	Not in the city
COUNTY	County
COUNTY	CTY

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Roadway_Facility_Type

Owner	
Description	Roadway Facility Type
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	

Name	Value
Neighborhood Collector	NC
City Collector	CC
County Minor Arterial	CMA
State Minor Arterial	SMA
State Principal Arterial	SPA
Florida Intrastate Highway System	FIHS

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Section

Owner	
Description	Section
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	

Name	Value
01	01
02	02
03	03
04	04

05	05
06	06
07	07
08	08
09	09
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36

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Size

Owner	
Description	Diameter
Domain Type	Coded Value
Field Type	Integer
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	
Name	**Value**
4"	4
6"	6
8"	8
10"	10
12"	12

15"	15
16"	16
18"	18
24"	24
30"	30
21"	21
1 1/4"	1
1 1/2"	2
3"	3
2"	20
2 1/2"	25
Unknown	0

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Subdivison

Owner	
Description	Subdivision
Domain Type	Coded Value
Field Type	String
Merge Policy	Default Value
Split Policy	Default Value
Domain Members	

Name	Value
01	01
02	02
03	03
04	04
05	05
06	06
07	07
08	08
09	09
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25

26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
00	00

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Township

Owner
Description Township
Domain Type Coded Value
Field Type String
Merge Policy Default Value
Split Policy Default Value
Domain Members

Name	Value
41	41
42	42

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Waste_Category

Owner
Description Waste Categories
Domain Type Coded Value
Field Type String
Merge Policy Default Value
Split Policy Default Value
Domain Members

Name	Value
Non-Generator	Non
Low-Generator	Low
Medium-Generator	Medium
High-Generator	High

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ObjectClasses

ObjectClass Name	Type	Geometry	Subtype
Basemap			SR
Census_Tracts	Simple FeatureClass	Polygon	-
CRA	Simple FeatureClass	Polygon	-
Existing_LU	Simple FeatureClass	Polygon	-
Future_Land_Use	Simple FeatureClass	Polygon	-
LOS_BND	Simple FeatureClass	Polyline	-
Neighborhoods	Simple FeatureClass	Polygon	-
PBG_City_Limits	Simple FeatureClass	Polygon	-
PBG_Parcels_City	Simple FeatureClass	Polygon	-
PBG_Parcels_Overall	Simple FeatureClass	Polygon	-
PBG_Parcels_Residential	Simple FeatureClass	Polygon	-
PUD	Simple FeatureClass	Polygon	-
Zipcodes	Simple FeatureClass	Polygon	-
Zoning	Simple FeatureClass	Polygon	-
Developments			SR
Approved_Projects	Simple FeatureClass	Polygon	-
Not_Approved_Projects	Simple FeatureClass	Polygon	-
Drainage			SR
Basins	Simple FeatureClass	Polygon	-
Drainage_Improvements	Simple FeatureClass	Point	-
Drainage_Lines	Simple FeatureClass	Polyline	-
FEMA	Simple FeatureClass	Polygon	-
Main_Canals	Simple FeatureClass	Polyline	-
Main_Structures	Simple FeatureClass	Point	-

SFWMD_Env_Resource_Permits	Simple FeatureClass	Polygon	-
SFWMD_Surface_Water_Management_Permits	Simple FeatureClass	Polygon	-
Structures	Simple FeatureClass	Point	-
Water_Bodies	Simple FeatureClass	Polygon	-
Parks and Recreation			SR
Facilities	Simple FeatureClass	Point	-
Marinas	Simple FeatureClass	Point	-
Park_Buffers	Simple FeatureClass	Polygon	-
PBG_City_Parks	Simple FeatureClass	Polygon	-
Proposed_Park_Facilities	Simple FeatureClass	Point	-
Proposed_Parks	Simple FeatureClass	Polygon	-
Potable Water			SR
Potable_Water_Mains	Simple FeatureClass	Polyline	-
Proposed_Water_Mains	Simple FeatureClass	Polyline	-
Proposed_WTP	Simple FeatureClass	Point	-
SUA_SA_BND	Simple FeatureClass	Polygon	-
Surficial_Well_Locations	Simple FeatureClass	Point	-
Wells	Simple FeatureClass	Point	-
WTP	Simple FeatureClass	Point	-
Public Schools			SR
Attendance_Zones_Elementary	Simple FeatureClass	Polygon	-
Attendance_Zones_High	Simple FeatureClass	Polygon	-
Attendance_Zones_Middle	Simple FeatureClass	Polygon	-
Concurrency_Service_Areas	Simple FeatureClass	Polygon	-
Planned_Schools	Simple FeatureClass	Point	-
Public_School_Buffers	Simple FeatureClass	Polygon	-
Public_Schools	Simple FeatureClass	Point	-

Sanitary Sewer			SR
Gravity_Main	Simple FeatureClass	Polyline	-
Lift_Station	Simple FeatureClass	Point	-
Proposed_Lift_Station	Simple FeatureClass	Point	-
Proposed_Sewer_Mains	Simple FeatureClass	Polyline	-
Proposed_WWTP	Simple FeatureClass	Point	-
Sanitary_Force_Main	Simple FeatureClass	Polyline	-
Septic_Tank_Locations	Simple FeatureClass	Point	-
WWTP	Simple FeatureClass	Point	-
Solid Waste			SR
Proposed_Sites	Simple FeatureClass	Point	-
Schedule	Simple FeatureClass	Polygon	-
Transportation			SR
Centerlines	Simple FeatureClass	Polyline	-
Infulence_Radius_Buffer	Simple FeatureClass	Polygon	-
Palm_Tran_Lines	Simple FeatureClass	Polyline	-
Project_Access_Point	Simple FeatureClass	Point	-
Proposed_Roadways	Simple FeatureClass	Polyline	-
Traffic_Analysis_Zones	Simple FeatureClass	Polygon	-
Trolley_Lines	Simple FeatureClass	Polyline	-
Stand Alone ObjectClass(s)			
Approved_Projects_Table	Table	-	-
Drainage_Project_Table	Table	-	-
Major_Projects	Table	-	-
Solid_Waste_Project_Table	Table	-	-
Statement_of_Capacity_Sewer	Table	-	-
Statement_of_Capacity_Water	Table	-	-
Transportation_Projects_Table	Table	-	-

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Approved_Projects

Alias Approved_Projects
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
PROJNUM			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes
Project_Summary			String	0	0	100	Yes
Concurrency_Cert_Req			String	0	0	100	Yes
Parks_and_Rec			String	0	0	100	Yes
Misc_Parks_and_Rec			String	0	0	100	Yes
Drainage			String	0	0	100	Yes
Misc_Drainage			String	0	0	100	Yes
PBC_Traffic			String	0	0	100	Yes
PBG_Traffic			String	0	0	100	Yes
Misc_Traffic			String	0	0	100	Yes
Water_Sewer			String	0	0	100	Yes
Misc_Water_Sewer			String	0	0	100	Yes
Solid_Waste			String	0	0	100	Yes
Schools			String	0	0	100	Yes
Misc_Schools			String	0	0	100	Yes
Forbearance			String	0	0	10	Yes
Grandfathered			String	0	0	10	Yes
Approved_Units			Integer	0	0	4	Yes
Unused_Units			Integer	0	0	4	Yes
Max_Sq_Footage			Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_65_PROJNUM	Yes	No	PROJNUM
Shape_INDEX	Yes	No	Shape

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Approved_Projects_Table

Alias Approved_Projects_Table
Dataset Type Table
FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Project_Description			String	0	0	33	Yes
Address			String	0	0	33	Yes
Units			Integer	0	0	4	Yes
Other_Units			String	0	0	11	Yes

Type_of_Unit	String	0	0	29	Yes	
Type_of_Approval	String	0	0	45	Yes	
Sec_Twn_Rng	String	0	0	16	Yes	
Zoning	String	0	0	15	Yes	
Year_	Double	0	0	8	Yes	
Use	String	0	0	10	Yes	
Year2	String	0	0	9	Yes	
Buildout_Date	String	0	0	13	Yes	
Medical_Concurrency	String	0	0	35	Yes	
Project_Number	Double	0	0	8	Yes	
Built	String	0	0	25	Yes	
Square_Feet	Double	0	0	8	Yes	

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
GDB_67_Project_N	Yes	No	Project_Number

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Attendance_Zones_Elementary

Alias Attendance_Zones_Elementary
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
ELEM			String	0	0	50	Yes
MSID_ELEM			String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_70_MSID_ELEM	Yes	No	MSID_ELEM
Shape_INDEX	Yes	No	Shape

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Attendance_Zones_High

Alias Attendance_Zones_High
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
HIGH			String	0	0	254	Yes
MSID_HIGH			String	0	0	4	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_71_MSID_HIGH	Yes	No	MSID_HIGH
Shape_INDEX	Yes	No	Shape

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Attendance_Zones_Middle

Alias Attendance_Zones_Middle
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
MIDDLE			String	0	0	254	Yes
MSID_MIDD			String	0	0	4	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_72_MSID_MIDD	Yes	No	MSID_MIDD
Shape_INDEX	Yes	No	Shape

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Basins

Alias Basins
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
NAME			String	0	0	40	Yes
ACRES			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Census_Tracts

Alias Census_Tracts
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
TR12_D00_			Double	0	0	8	Yes
TR12_D00_I			Double	0	0	8	Yes
STATE			String	0	0	2	Yes
COUNTY			String	0	0	3	Yes
TRACT			String	0	0	6	Yes
NAME			String	0	0	90	Yes
LSAD			String	0	0	2	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Centerlines

Alias Centerlines
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polyline
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LIMIT	LIMIT	LIMIT	String	0	0	5	Yes
STREET			String	0	0	100	Yes
FROMLEFT			Integer	0	0	4	Yes
TOLEFT			Integer	0	0	4	Yes
FROMRIGHT			Integer	0	0	4	Yes
TORIGHT			Integer	0	0	4	Yes
PREDIR			String	0	0	3	Yes
PRETYPE			String	0	0	15	Yes
NAME			String	0	0	27	Yes
STTYPE			String	0	0	7	Yes
SUFDIR			String	0	0	9	Yes
CITYR			String	0	0	4	Yes
CITYL			String	0	0	4	Yes
CITY			String	0	0	4	Yes
ZIPL			String	0	0	50	Yes
ZIPR			String	0	0	50	Yes
ZIPCODE			String	0	0	50	Yes

FUNC_CLASS			String	0	0	13	Yes
TFARE_ROW			String	0	0	13	Yes
ST_CTYROAD			String	0	0	16	Yes
ALIAS_NAME			String	0	0	16	Yes
ROAD_NUM			String	0	0	14	Yes
SPEED_LIM			String	0	0	13	Yes
LANES			String	0	0	7	Yes
EDIT_DATE			String	0	0	11	Yes
LGTH_MIL			Double	0	0	8	Yes
HUR_CLEARING			String	0	0	10	Yes
RESP_AUTH_LOC			String	0	0	50	Yes
RESP_AUTH	RESP_AUTH	RESP_AUTH	String	0	0	20	Yes
FROM_DESC			String	0	0	50	Yes
TO_DESC			String	0	0	50	Yes
FACILITY_TYPE	FACILITY_TYPE	FACILITY_TYPE	String	0	0	30	Yes
ROAD_CLASS			String	0	0	5	Yes
AADT			Double	0	0	8	Yes
TWO_WAY_PH			Double	0	0	8	Yes
DIR_PH			Double	0	0	8	Yes
LOS	LOS	LOS	String	0	0	10	Yes
CAPACITY			Double	0	0	8	Yes
AGR			Double	0	0	8	Yes
VOLUME_2007			Double	0	0	8	Yes
LOS_2007			Double	0	0	8	Yes
VOLUME_2008			Double	0	0	8	Yes
LOS_2008			Double	0	0	8	Yes
VOLUME_2009			Double	0	0	8	Yes
LOS_2009			Double	0	0	8	Yes
VOLUME_2010			Double	0	0	8	Yes
LOS_2010			Double	0	0	8	Yes
VOLUME_2011			Double	0	0	8	Yes
LOS_2011			Double	0	0	8	Yes
Proposed_Improvements			String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
LIMIT	in	Limit
RESP_AUTH		Resp_Auth
FACILITY_TYPE		Roadway_Facility_Type
LOS		LOS

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Concurrency_Service_Areas

Alias Concurrency_Service_Areas

Geometry: Polygon
Average Number of Points:0
Has M: No

Dataset Type FeatureClass
FeatureType *Simple*

Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
AREA			Double	0	0	8	Yes
PERIMETER			Double	0	0	8	Yes
LEOZONES_			Double	0	0	8	Yes
LEOZONES_I			Double	0	0	8	Yes
ZONE_			Small Integer	0	0	2	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_73_ZONE_	Yes	No	ZONE_
Shape_INDEX	Yes	No	Shape

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CRA

Alias CRA
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
FNAME			String	0	0	30	Yes
FCODE			String	0	0	25	Yes
DT_ENT			Date	0	0	8	Yes
DT_CHG			Date	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
Shape_INDEX	Yes	Yes	Shape

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Drainage_Improvements

Alias Drainage Improvements
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No

SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Project_Name			String	0	0	50	Yes
Type			String	0	0	50	Yes
Project_Dates	Year	Project_Dates	String	0	0	15	Yes
Budget			Double	0	0	8	Yes
Funding_Source			String	0	0	20	Yes
Hyperlink			String	0	0	50	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Drainage_Lines

Alias Drainage_Lines
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LINE_ID			Double	0	0	8	Yes
DRNLINES_I			Double	0	0	8	Yes
FNODE_			Double	0	0	8	Yes
TNODE_			Double	0	0	8	Yes
LPOLY_			Double	0	0	8	Yes
RPOLY_			Double	0	0	8	Yes
LENGTH			Double	0	0	8	Yes
DRAINLINES			Double	0	0	8	Yes
DRAINLIN_1			Double	0	0	8	Yes
DRLINES_			Integer	0	0	4	Yes
DRLINES_ID			Integer	0	0	4	Yes
LINES_			Integer	0	0	4	Yes
LINES_ID			Integer	0	0	4	Yes
SIZE_			Double	0	0	8	Yes
TYPE			String	0	0	8	Yes
ABLENGTH			Double	0	0	8	Yes
NEIGHBORHO			String	0	0	35	Yes
CTY			String	0	0	7	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Drainage_Project_Table

Alias Drainage_Project_Table
Dataset Type Table
FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Project_Number			Double	0	0	8	Yes
Project_Name			String	0	0	100	Yes
Acreage			Double	0	0	8	Yes
El_25yr_3day	25yr_3day_Elev	El_25yr_3day	Double	0	0	8	Yes
El_25yr_1day	25yr_1day_Elev	El_25yr_1day	Double	0	0	8	Yes
El_100yr_3day	100yr_3day_Elev (Min FF)	El_100yr_3day	Double	0	0	8	Yes
FEMA_Flood_Zone			String	0	0	20	Yes
Min_Crown_Road_Elev			Double	0	0	8	Yes
Design_Water_Elev			Double	0	0	8	Yes
Existing_SFWMD_Permit			String	0	0	10	Yes
Existing_NPBCID_Permit			String	0	0	10	Yes
Outfall_Location			String	0	0	50	Yes
Discharge_Rate			Double	0	0	8	Yes
PCN			String	0	0	18	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_80_Existing_	Yes	No	Existing_SFWMD_Permit
GDB_80_PCN	Yes	No	PCN
GDB_80_Project_N	Yes	No	Project_Number

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Existing_LU

Alias Existing_LU
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
GARDENSGIS_PBG_ExistingLandUs_2			Double	0	0	8	Yes
PERIMETER			Double	0	0	8	Yes
ACRES			Double	0	0	8	Yes
EXISTING			String	0	0	6	Yes
HECTARES			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Facilities

Alias Facilities
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
FACILITY			String	0	0	100	Yes
TYPE	TYPE	TYPE	String	0	0	50	Yes
DESCRIPT			String	0	0	100	Yes
X			Double	0	0	8	Yes
Y			Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
TYPE		Park_Type

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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FEMA

Alias FEMA
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
AREA_			Double	0	0	8	Yes
PERIMETER			Double	0	0	8	Yes
FIPS			String	0	0	5	Yes
COMMUNITY			String	0	0	4	Yes
FIRM_PANEL			String	0	0	11	Yes
QUAD			String	0	0	8	Yes
ZONE_			String	0	0	5	Yes
FLOODWAY			String	0	0	5	Yes
COBRA			String	0	0	9	Yes
SFHA			String	0	0	3	Yes
SYMBOL			Double	0	0	8	Yes
PANEL_TYP			String	0	0	4	Yes
FEMA			String	0	0	100	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Future_Land_Use

Alias Future_Land_Use
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LU			String	0	0	7	Yes
COMMERCIAL			Small Integer	0	0	2	Yes
ACRES			Double	0	0	8	Yes
EXISTING			String	0	0	6	Yes
DESCRIPTION			String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Gravity_Main

Alias Gravity_Main
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polyline
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Layer			String	0	0	255	Yes
Pipe_id			String	0	0	8	Yes
Enabled	Enabled	Enabled	Small Integer	0	0	2	Yes
Diameter	Diameter	Diameter	Integer	0	0	4	Yes
Material	Material	Material	String	0	0	50	Yes
Condition	Condition	Condition	Small Integer	0	0	2	Yes
video			String	0	0	50	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
Enabled	1	EnabledDomain
Diameter		Size
Material		Material
Condition	0	-

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Infulence_Radius_Buffer

Alias Infulence_Radius_Buffer
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Project_Number			Double	0	0	8	Yes
Project_Name			String	0	0	50	Yes
PCN			String	0	0	10	Yes
Distance			Double	0	0	8	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes
SHAPE_Area	SHAPE_Area	SHAPE_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_87_Project_N	Yes	No	Project_Number
SHAPE_INDEX	Yes	No	SHAPE

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Lift_Station

Alias Lift_Station
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
Layer			String	0	0	255	Yes
LS_NUM			String	0	0	4	Yes
Pictures			String	0	0	50	Yes
Rotation_Angle			Small Integer	0	0	2	Yes
Page			String	0	0	255	Yes
Address			String	0	0	255	Yes
Telementry			String	0	0	255	Yes
FPL_Meter			String	0	0	255	Yes
FPL_Account			Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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LOS_BND

Alias LOS_BND
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LENGTH			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Main_Canals

Alias Main_Canals
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LENGTH			Double	0	0	8	Yes
CITY_CANAL			Double	0	0	8	Yes
CITY_CAN_1			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Main_Structures

Alias Main_Structures
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
ID			Integer	0	0	4	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID

Shape_INDEX	Yes	Yes	Shape

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Major_Projects

Alias Major_Projects
Dataset Type Table
FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Project_Number			Double	0	0	8	Yes
Concurrency_Submittal_Date			String	0	0	255	Yes
Concurrency_Certification			String	0	0	255	Yes
DRC			String	0	0	255	Yes
DRC_Certification			String	0	0	255	Yes
PZ_A			String	0	0	255	Yes
City_Council			String	0	0	255	Yes
Build_Out_Date			Double	0	0	8	Yes
Petition_No			String	0	0	15	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_68_Project_N	Yes	No	Project_Number

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Marinas

Alias Marinas
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
NAME			String	0	0	60	Yes
LOCATION			String	0	0	60	Yes
CITY			String	0	0	24	Yes
TELEPHONE			String	0	0	13	Yes
ATLAS_PG			String	0	0	50	Yes
ATLAS_GRID			String	0	0	6	Yes
ID			Double	0	0	8	Yes
FCODE			String	0	0	20	Yes
PCN			String	0	0	17	Yes
ALIAS			String	0	0	75	Yes
ZIP			String	0	0	5	Yes
PHONE			String	0	0	12	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields

FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Neighborhoods

Alias Neighborhoods
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
SHAPE	Shape	Shape	Geometry	0	0	0	Yes
NEIGH	NEIGH	NEIGH	String	0	0	100	Yes
ACRES			Double	0	0	8	Yes
CAD			Double	0	0	8	Yes
PLAT_UNITS			Double	0	0	8	Yes
ASBUILT_IM			String	0	0	100	Yes
PLAT_IMG			String	0	0	125	Yes
MODEL_IMG			String	0	0	50	Yes
GATED_COM			String	0	0	1	Yes
TYPE			String	0	0	10	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes
SHAPE_Area	SHAPE_Area	SHAPE_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
SHAPE_INDEX	Yes	Yes	SHAPE

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Not_Approved_Projects

Alias Not_Approved_Projects
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
PROJECT_MANAGER	PROJECT MANAGER	PROJECT_MANAGER	String	0	0	50	Yes
PCN			String	0	0	18	Yes
PROJECT_NAME	PROJECT NAME	PROJECT_NAME	String	0	0	150	Yes
OWNERSHIP			String	0	0	55	Yes
USE			String	0	0	50	Yes
DESCRIPTION			String	0	0	150	Yes
ACRES			Double	0	0	8	Yes
AGENT			String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Project_Number	Double	0	0	8	Yes
Units	Integer	0	0	4	Yes
Other_Units	Integer	0	0	4	Yes
Sq_Feet	Double	0	0	8	Yes
Project_Summary	String	0	0	100	Yes
Conc_Cert_Req	String	0	0	100	Yes
Parks_and_Rec	String	0	0	100	Yes
Misc_Parks_and_Rec	String	0	0	100	Yes
Drainage	String	0	0	100	Yes
Misc_Drainage	String	0	0	100	Yes
PBC_Traffic	String	0	0	100	Yes
PBG_Traffic	String	0	0	100	Yes
Misc_Traffic	String	0	0	100	Yes
Water_Sewer	String	0	0	100	Yes
Misc_Water_Sewer	String	0	0	100	Yes
Solid_Waste	String	0	0	100	Yes
Misc_Solid_Waste	String	0	0	100	Yes
Schools	String	0	0	100	Yes
Misc_Schools	String	0	0	100	Yes
Forbearance	String	0	0	10	Yes
Grandfathered	String	0	0	10	Yes
Approved_Units	Integer	0	0	4	Yes
Unused_Units	Integer	0	0	4	Yes
Max_Sq_Footage	Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_5_PCN	Yes	No	PCN
GDB_5_Project_Nu	Yes	No	Project_Number
Shape_INDEX	Yes	No	Shape

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Palm_Tran_Lines

Alias Palm_Tran_Lines
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
SHAPE	Shape	Shape	Geometry	0	0	0	Yes
ROUTE_NUM			Small Integer	0	0	2	Yes
ROUTE			String	0	0	50	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Park_Buffers

Alias Park_Buffers
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LU			String	0	0	5	Yes
PARKNUM			String	0	0	4	Yes
PARK_NAME			String	0	0	40	Yes
PARK_OWNER			String	0	0	40	Yes
MAINT_RESP			String	0	0	40	Yes
TENNIS			Small Integer	0	0	2	Yes
SHUFFLEBRD			Small Integer	0	0	2	Yes
RACQUETBAL			Small Integer	0	0	2	Yes
BASKETBALL			Small Integer	0	0	2	Yes
SOCCER			Small Integer	0	0	2	Yes
SOFTBALL			Small Integer	0	0	2	Yes
T_BALL			Small Integer	0	0	2	Yes
BASEBALL			Small Integer	0	0	2	Yes
PAVILIONS			Small Integer	0	0	2	Yes
PICNIC			Small Integer	0	0	2	Yes
VITA			Small Integer	0	0	2	Yes
JOGGING			Small Integer	0	0	2	Yes
PLAY_TOT			Small Integer	0	0	2	Yes
GYMNASIUM			Small Integer	0	0	2	Yes
HORSESHOES			Small Integer	0	0	2	Yes
FISH_NOBOA			Small Integer	0	0	2	Yes
BOAT_RAMPS			Small Integer	0	0	2	Yes
BIKE_PATHS			Small Integer	0	0	2	Yes
NATURE_TRL			Small Integer	0	0	2	Yes
COMM_POOL			Small Integer	0	0	2	Yes
REC_CENTER			Small Integer	0	0	2	Yes
GOLF_COURS			Small Integer	0	0	2	Yes
NEIGH_PARK			String	0	0	1	Yes
COMM_PARK			String	0	0	1	Yes
FOOD_CONC			Small Integer	0	0	2	Yes
RESTROOMS			Small Integer	0	0	2	Yes
SQFT			Double	0	0	8	Yes
ROLLERHOCK			Integer	0	0	4	Yes
PARKING_SP			Small Integer	0	0	2	Yes
ACRES			Double	0	0	8	Yes
PARKS_IMG			String	0	0	100	Yes
PLAT_IMG			String	0	0	50	Yes
LAYOUT_IMG			String	0	0	30	Yes
DOG_PARK			Small Integer	0	0	2	Yes

IMPROVED_ACREAGE			Double	0	0	8	Yes
TYPE	TYPE	TYPE	String	0	0	50	Yes
BUFF_DIST			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
TYPE		Park_Type

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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PBG_City_Limits

Alias PBG_City_Limits
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LIMIT	LIMIT	LIMIT	String	0	0	5	Yes
ACRES			Double	0	0	8	Yes
SQ_MILE			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes
Population_2003			Double	0	0	8	Yes
Population_2004			Double	0	0	8	Yes
Population_2005			Double	0	0	8	Yes
Population_2006			Double	0	0	8	Yes
Population_2007			Double	0	0	8	Yes
Population_2008			Double	0	0	8	Yes
Population_2009			Double	0	0	8	Yes
Population_2010			Double	0	0	8	Yes
Population_2011			Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
LIMIT		Limit

Index Name	Ascending	Unique	Fields
Shape_INDEX	Yes	No	Shape

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PBG_City_Parks

Alias PBG_City_Parks
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
LU			String	0	0	5	Yes
PARKNUM			String	0	0	4	Yes
PARK_NAME			String	0	0	40	Yes
PARK_OWNER			String	0	0	40	Yes
MAINT_RESP			String	0	0	40	Yes
TENNIS			Small Integer	0	0	2	Yes
SHUFFLEBRD			Small Integer	0	0	2	Yes
RACQUETBAL			Small Integer	0	0	2	Yes
BASKETBALL			Small Integer	0	0	2	Yes
SOCCER			Small Integer	0	0	2	Yes
SOFTBALL			Small Integer	0	0	2	Yes
T_BALL			Small Integer	0	0	2	Yes
BASEBALL			Small Integer	0	0	2	Yes
PAVILIONS			Small Integer	0	0	2	Yes
PICNIC			Small Integer	0	0	2	Yes
VITA			Small Integer	0	0	2	Yes
JOGGING			Small Integer	0	0	2	Yes
PLAY_TOT			Small Integer	0	0	2	Yes
GYMNASIUM			Small Integer	0	0	2	Yes
HORSESHOES			Small Integer	0	0	2	Yes
FISH_NOBOA			Small Integer	0	0	2	Yes
BOAT_RAMPS			Small Integer	0	0	2	Yes
BIKE_PATHS			Small Integer	0	0	2	Yes
NATURE_TRL			Small Integer	0	0	2	Yes
COMM_POOL			Small Integer	0	0	2	Yes
REC_CENTER			Small Integer	0	0	2	Yes
GOLF_COURS			Small Integer	0	0	2	Yes
NEIGH_PARK			String	0	0	1	Yes
COMM_PARK			String	0	0	1	Yes
FOOD_CONC			Small Integer	0	0	2	Yes
RESTROOMS			Small Integer	0	0	2	Yes
SQFT			Double	0	0	8	Yes
ROLLERHOCK			Integer	0	0	4	Yes
PARKING_SP			Small Integer	0	0	2	Yes
ACRES			Double	0	0	8	Yes
PARKS_IMG			String	0	0	100	Yes
PLAT_IMG			String	0	0	50	Yes
LAYOUT_IMG			String	0	0	30	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes
DOG_PARK			Small Integer	0	0	2	Yes
IMPROVED_ACREAGE			Double	0	0	8	Yes
TYPE	TYPE	TYPE	String	0	0	50	Yes

Subtype Name	Default Value	Domain
ObjectClass		
TYPE		Park_Type

Index Name	Ascending	Unique	Fields

FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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PBG_Parcels_City

Alias PBG_Parcels_City
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
PCN			String	0	0	17	Yes
DSCRIPT			String	0	0	50	Yes
NUMBER_			Small Integer	0	0	2	Yes
ACRES			Double	0	0	8	Yes
CITY_IMG			String	0	0	100	Yes
ASBUILT_IM			String	0	0	25	Yes
SITE_IMG			String	0	0	25	Yes
PLAT_IMG			String	0	0	25	Yes
SHAPE_LENG			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
Shape_INDEX	Yes	Yes	Shape

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PBG_Parcels_Overall

Alias PBG_Parcels_Overall
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
CTY	CTY	CTY	Small Integer	0	0	2	Yes
RNG	RNG	RNG	String	0	0	7	Yes
TWP	TWP	TWP	String	0	0	7	Yes
SEC	SEC	SEC	String	0	0	7	Yes
SUB	SUB	SUB	String	0	0	7	Yes
BLK			String	0	0	6	Yes
LOT			String	0	0	6	Yes
PCN			String	0	0	18	Yes
ACRES			Double	0	0	8	Yes
EXISTING	EXISTING	EXISTING	String	0	0	6	Yes

PLAT_IMG			String	0	0	25	Yes
PARENT_PCN			String	0	0	18	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
CTY		City
RNG		Range
TWP		Township
SEC		Section
SUB		Subdivison
EXISTING		Existing

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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PBG_Parcels_Residential

Alias PBG_Parcels_Residential
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
CTY			Small Integer	0	0	2	Yes
RNG			String	0	0	7	Yes
TWP			String	0	0	7	Yes
SEC			String	0	0	7	Yes
SUB			String	0	0	7	Yes
BLK			String	0	0	6	Yes
LOT			String	0	0	6	Yes
PCN			String	0	0	18	Yes
ACRES			Double	0	0	8	Yes
EXISTING			String	0	0	6	Yes
PLAT_IMG			String	0	0	25	Yes
ADDRESS			String	0	0	255	Yes
CITY			String	0	0	18	Yes
STATE			String	0	0	2	Yes
ZIP			Double	0	0	8	Yes
MAD_ID			Integer	0	0	4	Yes
PCN_PAPA			String	0	0	255	Yes
PCN_1			String	0	0	21	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID

Shape_INDEX	Yes	Yes	Shape

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Planned_Schools

Alias Planned_Schools
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
OBJECTID			Integer	0	0	4	Yes
NAME			String	0	0	50	Yes
LOCATION			String	0	0	50	Yes
OPEN_DATE			String	0	0	50	Yes
TYPE			String	0	0	50	Yes
AREA			String	0	0	50	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
Shape_INDEX	Yes	Yes	Shape

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Potable_Water_Mains

Alias Potable_Water_Mains
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1261.54128117493

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	No
Enabled	Enabled	Enabled	Small Integer	0	0	2	Yes
Type	Type	Type	String	0	0	50	Yes
Main_Material	Main_Material	Main_Material	String	0	0	50	Yes
Dia	Diameter	Dia	String	0	0	10	Yes
Own	Owner	Own	String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
Enabled	1	EnabledDomain
Main_Material		Material

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Project_Access_Point

Alias Project_Access_Point
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Project_Number			Double	0	0	8	Yes
Project_Name			String	0	0	50	Yes
PCN			String	0	0	18	Yes
Net_Trips			Double	0	0	8	Yes
Influence_Radius			Double	0	0	8	Yes
Half_Mile_DM			String	0	0	5	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_86_Project_N	Yes	No	Project_Number
SHAPE_INDEX	Yes	No	SHAPE

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Proposed_Lift_Station

Alias Proposed_Lift_Station
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
SUA_ID	Location	SUA_ID	String	0	0	10	Yes
Capacity			Double	0	0	8	Yes
Location			String	0	0	50	Yes
Year_in_Service			String	0	0	10	Yes
Notes			String	0	0	50	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_Park_Facilities

Alias Proposed Park Facilities
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null

OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Project			String	0	0	100	Yes
YR2006_2007	2006 / 2007	YR2006_2007	Small Integer	0	0	2	Yes
YR2007_2008	2007 / 2008	YR2007_2008	Small Integer	0	0	2	Yes
YR2008_2009	2008 / 2009	YR2008_2009	Small Integer	0	0	2	Yes
YR2009_2010	2009 / 2010	YR2009_2010	Small Integer	0	0	2	Yes
YR2010_2011	2010 / 2011	YR2010_2011	Small Integer	0	0	2	Yes
Funding_Source	Funding Source	Funding_Source	String	0	0	50	Yes
Notes			String	0	0	100	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_Parks

Alias Proposed Parks
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
LU			String	0	0	5	Yes
PARKNUM			String	0	0	4	Yes
PARK_NAME			String	0	0	40	Yes
PARK_OWNER			String	0	0	40	Yes
MAINT_RESP			String	0	0	40	Yes
TENNIS			Small Integer	0	0	2	Yes
SHUFFLEBRD			Small Integer	0	0	2	Yes
RACQUETBAL			Small Integer	0	0	2	Yes
BASKETBALL			Small Integer	0	0	2	Yes
SOCCER			Small Integer	0	0	2	Yes
SOFTBALL			Small Integer	0	0	2	Yes
T_BALL			Small Integer	0	0	2	Yes
BASEBALL			Small Integer	0	0	2	Yes
PAVILIONS			Small Integer	0	0	2	Yes
PICNIC			Small Integer	0	0	2	Yes
VITA			Small Integer	0	0	2	Yes
JOGGING			Small Integer	0	0	2	Yes
PLAY_TOT			Small Integer	0	0	2	Yes
GYMNASIUM			Small Integer	0	0	2	Yes
HORSESHOES			Small Integer	0	0	2	Yes
FISH_NOBOA			Small Integer	0	0	2	Yes
BOAT_RAMPS			Small Integer	0	0	2	Yes
BIKE_PATHS			Small Integer	0	0	2	Yes
NATURE_TRL			Small Integer	0	0	2	Yes

COMM_POOL			Small Integer	0	0	2	Yes
REC_CENTER			Small Integer	0	0	2	Yes
GOLF_COURS			Small Integer	0	0	2	Yes
NEIGH_PARK			String	0	0	1	Yes
COMM_PARK			String	0	0	1	Yes
FOOD_CONC			Small Integer	0	0	2	Yes
RESTROOMS			Small Integer	0	0	2	Yes
SQFT			Double	0	0	8	Yes
ROLLERHOCK			Integer	0	0	4	Yes
PARKING_SP			Small Integer	0	0	2	Yes
ACRES			Double	0	0	8	Yes
PARKS_IMG			String	0	0	100	Yes
PLAT_IMG			String	0	0	50	Yes
LAYOUT_IMG			String	0	0	30	Yes
DOG_PARK			Small Integer	0	0	2	Yes
IMPROVED_ACREAGE			Double	0	0	8	Yes
TYPE	TYPE	TYPE	String	0	0	50	Yes
COMPLETION_DATE			Date	0	0	8	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes
SHAPE_Area	SHAPE_Area	SHAPE_Area	Double	0	0	8	Yes
Budget			Double	0	0	8	Yes
Year_Complete			String	0	0	10	Yes

Subtype Name	Default Value	Domain
ObjectClass		
TYPE		Park_Type

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_Roadways

Alias Proposed_Roadways
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polyline
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Name			String	0	0	25	Yes
Func_Class			String	0	0	15	Yes
Lanes			String	0	0	5	Yes
Resp_Authority	Resp_Authority	Resp_Authority	String	0	0	20	Yes
Facility_Type	Facility_Type	Facility_Type	String	0	0	30	Yes
Road_Class			String	0	0	5	Yes
EST_AADT	Est_AADT	EST_AADT	Double	0	0	8	Yes
EST_Capacity			Double	0	0	8	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

ObjectClass	
Resp_Authority	Resp_Auth
Facility_Type	Roadway_Facility_Type

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_Sewer_Mains

Alias Proposed_Sewer_Mains
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polyline
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Diameter			Double	0	0	8	Yes
Material			String	0	0	15	Yes
Type			String	0	0	15	Yes
Year_in_Service			String	0	0	10	Yes
Budget			Double	0	0	8	Yes
Notes			String	0	0	50	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_Sites

Alias Propsed Sites
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Site_Name			String	0	0	25	Yes
Site_Number			String	0	0	10	Yes
Permit_Number			String	0	0	10	Yes
Owner			String	0	0	25	Yes
STR			String	0	0	10	Yes
Class			String	0	0	10	Yes
Type			String	0	0	10	Yes
Acres			Double	0	0	8	Yes
Open_Date			String	0	0	10	Yes
Proposed_Capacity_Tons			Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_Water_Mains

Alias Proposed_Water_Mains
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Diameter			Double	0	0	8	Yes
Material			String	0	0	15	Yes
Year_in_Service	Year	Year_in_Service	String	0	0	10	Yes
Budget			Double	0	0	8	Yes
Notes			String	0	0	50	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_WTP

Alias Proposed_WTP
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Name			String	0	0	25	Yes
Location			String	0	0	50	Yes
Capacity_MGD			Double	0	0	8	Yes
Year_in_Service			String	0	0	10	Yes
Budget			Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Proposed_WWTP

Alias Proposed_WWTP
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Name			String	0	0	25	Yes
Location			String	0	0	50	Yes
Capacity_MGD			Double	0	0	8	Yes
Year_in_Service			String	0	0	10	Yes
Budget			Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Public_School_Buffers

Alias Public_School_Buffers
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
NAME			String	0	0	60	Yes
MSID			String	0	0	4	Yes
ATLAS_PAGE			String	0	0	3	Yes
GRID_CODE			String	0	0	8	Yes
ADDRESS			String	0	0	50	Yes
PHONE			String	0	0	8	Yes
ADMAREA			Double	0	0	8	Yes
TYPE			String	0	0	4	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Public_Schools

Alias Public_Schools

Geometry: Point
Average Number of Points:0
Has M: No

Dataset Type FeatureClass
FeatureType Simple

Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
NAME			String	0	0	60	Yes
MSID			String	0	0	4	Yes
ADDRESS			String	0	0	50	Yes
PHONE			String	0	0	8	Yes
TYPE			String	0	0	4	Yes
OPEN_DATE			String	0	0	50	Yes
CSA_ZONE			Small Integer	0	0	2	Yes
ENROLLMENT_06_07			Small Integer	0	0	2	Yes
CAPACITY_06_07			Small Integer	0	0	2	Yes
UTILIZATION_06_07			Small Integer	0	0	2	Yes
ENROLLMENT_07_08			Small Integer	0	0	2	Yes
CAPACITY_07_08			Small Integer	0	0	2	Yes
UTILIZATION_07_08			Small Integer	0	0	2	Yes
ENROLLMENT_08_09			Small Integer	0	0	2	Yes
CAPACITY_08_09			Small Integer	0	0	2	Yes
UTILIZATION_08_09			Small Integer	0	0	2	Yes
ENROLLMENT_09_10			Small Integer	0	0	2	Yes
CAPACITY_09_10			Small Integer	0	0	2	Yes
UTILIZATION_09_10			Small Integer	0	0	2	Yes
ENROLLMENT_10_11			Small Integer	0	0	2	Yes
CAPACITY_10_11			Small Integer	0	0	2	Yes
UTILIZATION_10_11			Small Integer	0	0	2	Yes
ENROLLMENT_11_12			Small Integer	0	0	2	Yes
CAPACITY_11_12			Small Integer	0	0	2	Yes
UTILIZATION_11_12			Small Integer	0	0	2	Yes
CIP_DESCRIPTION			String	0	0	50	Yes
CIP_BUDGET			Double	0	0	8	Yes
CIP_YEAR			String	0	0	10	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_75_CSA_ZONE	Yes	No	CSA_ZONE
GDB_75_MSID	Yes	No	MSID
Shape_INDEX	Yes	No	Shape

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PUD

Alias PUD
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No

Shape	Shape	Shape	Geometry	0	0	0	Yes
ACRES			Double	0	0	8	Yes
PROJNUM			Double	0	0	8	Yes
ZONING			String	0	0	5	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Sanitary_Force_Main

Alias Sanitary_Force_Main
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polyline
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
Diameter			String	0	0	10	Yes
Lift_Station			String	0	0	50	Yes
TYPE			String	0	0	50	Yes
TypeS			Small Integer	0	0	2	Yes
MaterialD	MaterialD	MaterialD	String	0	0	50	Yes
SizeD	SizeD	SizeD	Integer	0	0	4	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
MaterialD		Material
SizeD		Size

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Schedule

Alias Schedule
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
ACRES			Double	0	0	8	Yes
NEIGHBORHO			String	0	0	50	Yes
GARBAGE			String	0	0	21	Yes

VEGETATION			String	0	0	16	Yes
RECYCLE			String	0	0	16	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Septic_Tank_Locations

Alias Septic_Tank_Locations
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Owner			String	0	0	25	Yes
Notes			String	0	0	50	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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SFWMD_Env_Resource_Permits

Alias SFWMD_Env_Resource_Permits
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
OBJECTID			Integer	0	0	4	Yes
APP_NO			String	0	0	20	Yes
Shape_Leng			Double	0	0	8	Yes
PRJ_NAME			String	0	0	60	Yes
ISSUE_AGCY			String	0	0	10	Yes
ACTUL_PERM			String	0	0	3	Yes
FIN_ACN_DT			Date	0	0	8	Yes
ACRS_SERVD			Double	0	0	8	Yes
COUNTY_ID			Double	0	0	8	Yes
PERMIT_NO			String	0	0	20	Yes
APP_STATUS			String	0	0	15	Yes
COUNTY			String	0	0	240	Yes
TWP			String	0	0	2	Yes

RGE			String	0	0	2	Yes
SEC			String	0	0	40	Yes
PERMT_TYPE			String	0	0	5	Yes
CERP_RESCD			String	0	0	1	Yes
REVIEWER			String	0	0	254	Yes
APP_TYPE			String	0	0	5	Yes
FEE_DESCP			String	0	0	254	Yes
FEE_CODE			String	0	0	6	Yes
ACTIVE_MOD			String	0	0	1	Yes
APP_KIND			String	0	0	5	Yes
POC_TYPE			String	0	0	4	Yes
COMPANY			String	0	0	50	Yes
NAME			String	0	0	60	Yes
ADDR1			String	0	0	40	Yes
ADDR2			String	0	0	40	Yes
CITY			String	0	0	25	Yes
STATE			String	0	0	2	Yes
ZIP			String	0	0	10	Yes
PHONE			String	0	0	13	Yes
LANDUSE			String	0	0	254	Yes
RESRC_CODE			String	0	0	150	Yes
EASEMENT			String	0	0	254	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
GDB_78_PERMIT_NO	Yes	No	PERMIT_NO
Shape_INDEX	Yes	No	Shape

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SFWMD_Surface_Water_Management_Permits

Alias SFWMD_Surface_Water_Management_Permits
Dataset Type FeatureClass
FeatureType Simple
Geometry: Polygon
Average Number of Points: 0
Has M: No
Has Z: No
Grid Size: 1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
APP_NO			String	0	0	20	Yes
PERMIT_NO			String	0	0	20	Yes
PROJECT_NA			String	0	0	60	Yes
APP_STATUS			String	0	0	15	Yes
ACTIVE_MOD			String	0	0	1	Yes
ACTUAL_PER			String	0	0	3	Yes
PROJECT_AC			Double	0	0	8	Yes
ACRES_SERV			Double	0	0	8	Yes
APP_RCVD_D			Date	0	0	8	Yes

APP_SIGN_D			Date	0	0	8	Yes
PERMIT_STA			String	0	0	5	Yes
PERMIT_DUR			Double	0	0	8	Yes
CONCURRENC			String	0	0	1	Yes
LEGAL_COMP			Date	0	0	8	Yes
FINAL_ACTI			Date	0	0	8	Yes
CONSTR_EXP			Date	0	0	8	Yes
CONCEPT_EX			Date	0	0	8	Yes
WOD_EFF_FR			Date	0	0	8	Yes
WOD_EXP_DA			Date	0	0	8	Yes
ISSUING_AG			String	0	0	10	Yes
PROJECT_CI			String	0	0	30	Yes
WU_REN_BAS			String	0	0	5	Yes
PARCEL			String	0	0	60	Yes
CNTY_CODE			Small Integer	0	0	2	Yes
COUNTY			String	0	0	20	Yes
FEE_CODE			String	0	0	6	Yes
FEE_PERMIT			String	0	0	5	Yes
FEE_CATEGO			String	0	0	8	Yes
FEE_APP_TY			String	0	0	5	Yes
FEE_APP_KI			String	0	0	5	Yes
DESCRIPTIO			String	0	0	254	Yes
FEE_APP_PU			String	0	0	6	Yes
CERP_RSRC_			String	0	0	1	Yes
LU_CODE			String	0	0	4	Yes
LU_DESC			String	0	0	80	Yes
WTR_REV_NA			String	0	0	30	Yes
STR_REV_NA			String	0	0	30	Yes
NTR_REV_NA			String	0	0	30	Yes
RC_CODE			String	0	0	4	Yes
POC_TYPE			String	0	0	4	Yes
COMPANY			String	0	0	120	Yes
NAME			String	0	0	51	Yes
ADDR1			String	0	0	40	Yes
ADDR2			String	0	0	40	Yes
CITY			String	0	0	25	Yes
STATE			String	0	0	2	Yes
ZIP			String	0	0	10	Yes
PHONE			String	0	0	20	Yes
TWP			Double	0	0	8	Yes
RGE			Double	0	0	8	Yes
SEC			String	0	0	40	Yes
LINK			String	0	0	254	Yes
Shape_Leng			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_79_PERMIT_NO	Yes	No	PERMIT_NO

Shape_INDEX	Yes	No	Shape

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Solid_Waste_Project_Table

Alias Solid_Waste_Project_Table
Dataset Type Table
FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Project_Number			Double	0	0	8	Yes
Project_Name			String	0	0	100	Yes
Project_Status			String	0	0	10	Yes
PCN			String	0	0	18	Yes
SF_Units			Integer	0	0	4	Yes
MH_Units			Integer	0	0	4	Yes
MF_Units			Integer	0	0	4	Yes
Commercial_Sq_Feet			Double	0	0	8	Yes
Category	Category	Category	String	0	0	10	Yes
PAO_Code			String	0	0	10	Yes
Use_Description			String	0	0	50	Yes
SF_Lbs_Year			Double	0	0	8	Yes
SF_Lbs_Day			Double	0	0	8	Yes
SF_Lbs_Capita			Double	0	0	8	Yes
MH_Lbs_Year			Double	0	0	8	Yes
MH_Lbs_Day			Double	0	0	8	Yes
MH_Lbs_Capita			Double	0	0	8	Yes
MF_Lbs_Year			Double	0	0	8	Yes
MF_Lbs_Day			Double	0	0	8	Yes
MF_Lbs_Capita			Double	0	0	8	Yes
Commercial_Lbs_Year			Double	0	0	8	Yes
Commercial_Lbs_Day			Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
Category		Waste_Category

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_81_PCN	Yes	No	PCN
GDB_81_Project_N	Yes	No	Project_Number

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Statement_of_Capacity_Sewer

Alias Statement_of_Capacity_Sewer
Dataset Type Table
FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No

Project_Number	Double	0	0	8	Yes	
Project_Name	String	0	0	50	Yes	
PCN	String	0	0	18	Yes	
Capacity	Double	0	0	8	Yes	
In_Use	Double	0	0	8	Yes	
Project_Usage	Double	0	0	8	Yes	
Balance	Double	0	0	8	Yes	
ERCs	Double	0	0	8	Yes	
Units	Double	0	0	8	Yes	

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_89_PCN	Yes	No	PCN
GDB_89_Project_N	Yes	No	Project_Number

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Statement_of_Capacity_Water

Alias Statement_of_Capacity_Water
Dataset Type Table
FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Project_Number			Double	0	0	8	Yes
Project_Name			String	0	0	50	Yes
PCN			String	0	0	18	Yes
Capacity			Double	0	0	8	Yes
In_Use			Double	0	0	8	Yes
Project_Usage			Double	0	0	8	Yes
Balance			Double	0	0	8	Yes
ERCs			Double	0	0	8	Yes
Units			Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_88_PCN	Yes	No	PCN
GDB_88_Project_N	Yes	No	Project_Number

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Structures

Alias Structures
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes

APPPROJ	Double	0	0	8	Yes
DRBASIN	String	0	0	25	Yes
STRNUM	String	0	0	8	Yes
TYPE	String	0	0	10	Yes
TOPELEV	Double	0	0	8	Yes
PSIZE	Integer	0	0	4	Yes
PTYPE	String	0	0	8	Yes
PLENGTH	Double	0	0	8	Yes
PINVERT	Double	0	0	8	Yes
PINVERT1	String	0	0	8	Yes
PINVERT2	String	0	0	8	Yes
PINVERT3	String	0	0	8	Yes
PINVERT4	String	0	0	8	Yes
MAINTAIN	String	0	0	10	Yes
SUBPROJ	Double	0	0	8	Yes
STATUS	String	0	0	10	Yes
MHDIAM	Double	0	0	8	Yes
CITY_STR	String	0	0	16	Yes
CTY	String	0	0	7	Yes
RANGE	String	0	0	10	Yes
TOWNSHIP	String	0	0	10	Yes
SECT	String	0	0	10	Yes
DEVELOPMENT	String	0	0	50	Yes
STREET	String	0	0	50	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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SUA_SA_BND

Alias SUA_SA_BND
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
Id			Integer	0	0	4	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Surficial_Well_Locations

Alias Surficial_Well_Locations
Dataset Type FeatureClass
FeatureType Simple

Geometry:Point
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Owner			String	0	0	50	Yes
Permit			String	0	0	10	Yes
Notes			String	0	0	50	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Traffic_Analysis_Zones

Alias Traffic_Analysis_Zones
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:57471.406

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
TAZ			Integer	0	0	4	Yes
ACRES			Double	0	0	8	Yes
SQ_MILES			Double	0	0	8	Yes
CTRACT1990			Double	0	0	8	Yes
CTRACT2000			Double	0	0	8	Yes
MPOSECTOR			Small Integer	0	0	2	Yes
DESCRIP			String	0	0	50	Yes
GEOMETRY_A			Double	0	0	8	Yes
GEOMETRY_L			Double	0	0	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
Shape_INDEX	Yes	Yes	Shape

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Transportation_Projects_Table

Alias Transportation_Projects_Table
Dataset Type Table

FeatureType

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
PBC_SL			String	0	0	50	Yes
MUNI_ID			Integer	0	0	4	Yes
ADDRESS			String	0	0	150	Yes
INT_ORIENTATION			String	0	0	2	Yes
INT_EW			String	0	0	150	Yes
INT_NS			String	0	0	150	Yes
PROJECT_NAME			String	0	0	254	Yes
ALTERNATE_NAME			String	0	0	254	Yes
BUILDOUT_YEAR			Small Integer	0	0	2	Yes
DATE_APPROVED			Date	0	0	8	Yes
APPROVED			String	0	0	1	Yes
FILED_BY			String	0	0	10	Yes
STUDY_STATEMENT			String	0	0	50	Yes
IMPROVEMENTS			String	0	0	1	Yes
NOTES			String	0	0	2147483647	Yes
PROJECT_ID			Integer	0	0	4	No
NEW_TRIPS_DAILY			Double	0	0	8	Yes
NEW_TRIPS_AM			Double	0	0	8	Yes
NEW_TRIPS_IN_AM			Double	0	0	8	Yes
NEW_TRIPS_OUT_AM			Double	0	0	8	Yes
NEW_TRIPS_PM			Double	0	0	8	Yes
NEW_TRIPS_IN_PM			Double	0	0	8	Yes
NEW_TRIPS_OUT_PM			Double	0	0	8	Yes
NEW_RES_TRIPS_DAILY			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_DAILY			Double	0	0	8	Yes
NEW_RES_TRIPS_AM			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_AM			Double	0	0	8	Yes
NEW_RES_TRIPS_PM			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_PM			Double	0	0	8	Yes
NEW_RES_TRIPS_IN_AM			Double	0	0	8	Yes
NEW_RES_TRIPS_OUT_AM			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_IN_AM			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_OUT_AM			Double	0	0	8	Yes
NEW_RES_TRIPS_IN_PM			Double	0	0	8	Yes
NEW_RES_TRIPS_OUT_PM			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_IN_PM			Double	0	0	8	Yes
NEW_NON_RES_TRIPS_OUT_PM			Double	0	0	8	Yes
PROJECT_TYPE			String	0	0	15	Yes
TAZ			String	0	0	10	Yes
APPROVED_BY			String	0	0	50	Yes
PROJECT_NUMBER			Double	0	0	8	Yes
PCN			String	0	0	18	Yes
DEVELOPMENT_STATUS	DEVELOPMENT_STATUS	DEVELOPMENT_STATUS	String	0	0	10	Yes

Subtype Name	Default Value	Domain
ObjectClass		
DEVELOPMENT_STATUS		Built

Index Name	Ascending	Unique	Fields

FDO_OBJECTID	Yes	Yes	OBJECTID
GDB_85_PCN	Yes	No	PCN
GDB_85_PROJECT_N	Yes	No	PROJECT_NUMBER

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Trolley_Lines

Alias Trolley_Lines
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polyline
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
SHAPE	Shape	Shape	Geometry	0	0	0	Yes
ROUTE_NUM			Small Integer	0	0	2	Yes
ROUTE			String	0	0	50	Yes
SHAPE_Length	SHAPE_Length	SHAPE_Length	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Water_Bodies

Alias Water_Bodies
Dataset Type FeatureClass
FeatureType Simple

Geometry: Polygon
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
MAINT_RESP	MAINT_RESP	MAINT_RESP	String	0	0	25	Yes
ROW			Small Integer	0	0	2	Yes
YEAR_			String	0	0	5	Yes
ACRES			Double	0	0	8	Yes
RESTORATION			String	0	0	25	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain
ObjectClass		
MAINT_RESP		Resp_Auth

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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Wells

Alias Wells
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:3696.57783388658

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	No
Layer			String	0	0	255	Yes
Well_Number			String	0	0	6	Yes
Well_ID			String	0	0	50	Yes
Enabled	Enabled	Enabled	Small Integer	0	0	2	Yes
Production_Label			String	0	0	50	Yes

Subtype Name	Default Value	Domain
ObjectClass		
Enabled	1	EnabledDomain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
Shape_INDEX	Yes	Yes	Shape

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WTP

Alias WTP
Dataset Type FeatureClass
FeatureType Simple

Geometry: Point
Average Number of Points:0
Has M: No
Has Z: No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Name			String	0	0	15	Yes
Location	Address	Location	String	0	0	50	Yes
Capacity_MGD	Capacity	Capacity_MGD	Double	0	0	8	Yes
Current_Volume_MGD			Double	0	0	8	Yes
Projected_Demand_MGD_2007	Projected_Demand_MGD_2007	Projected_Demand_MGD_2007	Double	0	0	8	Yes
Projected_Demand_MGD_2008	Projected_Demand_MDG_2008	Projected_Demand_MGD_2008	Double	0	0	8	Yes
Projected_Demand_MGD_2009			Double	0	0	8	Yes
Projected_Demand_MGD_2010			Double	0	0	8	Yes
Projected_Demand_MGD_2011			Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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WWTP

Geometry: Point

Alias WWTP
Dataset Type FeatureClass
FeatureType Simple

Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	0	0	4	No
SHAPE	SHAPE	SHAPE	Geometry	0	0	0	Yes
Name			String	0	0	15	Yes
Location	Address	Location	String	0	0	50	Yes
Capacity_MGD	Capacity	Capacity_MGD	Double	0	0	8	Yes
Current_Volume_MGD			Double	0	0	8	Yes
Projected_Demand_MGD_2007	Projected_Demand_MGD_2007	Projected_Demand_MGD_2007	Double	0	0	8	Yes
Projected_Demand_MGD_2008	Projected_Demand_MDG_2008	Projected_Demand_MGD_2008	Double	0	0	8	Yes
Projected_Demand_MGD_2009			Double	0	0	8	Yes
Projected_Demand_MGD_2010			Double	0	0	8	Yes
Projected_Demand_MGD_2011			Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
SHAPE_INDEX	Yes	Yes	SHAPE

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Zipcodes

Alias Zipcodes
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes
ZIPCODE			String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name **Default Value** **Domain**

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
Shape_INDEX	Yes	Yes	Shape

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Zoning

Alias Zoning
Dataset Type FeatureClass
FeatureType Simple

Geometry:Polygon
Average Number of Points:0
Has M:No
Has Z:No
Grid Size:1000

Field Name	Alias Name	Model Name	Type	Precn.	Scale	Length	Null
OBJECTID_1	OBJECTID_1	OBJECTID_1	OID	0	0	4	No
Shape	Shape	Shape	Geometry	0	0	0	Yes

ZONING			String	0	0	5	Yes
ACRES			Double	0	0	8	Yes
DESCRIPTIO			String	0	0	50	Yes
Shape_Length	Shape_Length	Shape_Length	Double	0	0	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	0	0	8	Yes

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID_1	Yes	Yes	OBJECTID_1
Shape_INDEX	Yes	Yes	Shape

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Relationships

Name	Origin	Destination	Attributed	Composite	R
Access_Points_Transportation_Relationship	Project_Access_Point	Transportation_Projects_Table	No	No	N
Approved_Projects_Drainage_Relationship	Approved_Projects	Drainage_Project_Table	No	No	N
Approved_Projects_Relationship	Approved_Projects	Approved_Projects_Table	No	No	N
Approved_Projects_Transportation_Relationship	Approved_Projects	Transportation_Projects_Table	No	No	N
Approved_Projects_Waste_Relationship	Approved_Projects	Solid_Waste_Project_Table	No	No	N
CSA_and_Schools_Relationship	Concurrency_Service_Areas	Public_Schools	No	No	N
Drainage_Projects_ERP	Drainage_Project_Table	SFWMD_Env_Resource_Permits	No	No	N
Drainage_Projects_SWMP	Drainage_Project_Table	SFWMD_Surface_Water_Management_Permits	No	No	N
ESAZ_and_Schools_Relationship	Attendance_Zones_Elementary	Public_Schools	No	No	N
HSAZ_and_Schools_Relationship	Attendance_Zones_High	Public_Schools	No	No	N
Influence_Buffers_Transportation_Relationship	Influence_Radius_Buffer	Transportation_Projects_Table	No	No	N
Major_Projects_Relationship	Not_Approved_Projects	Major_Projects	No	No	N
MSAZ_and_Schools_Relationship	Attendance_Zones_Middle	Public_Schools	No	No	N
Not_Approved_Project_Drainage_Relationship	Not_Approved_Projects	Drainage_Project_Table	No	No	N
Not_Approved_Projects_Transportation	Not_Approved_Projects	Transportation_Projects_Table	No	No	N
Not_Approved_Projects_Waste_Relationship	Not_Approved_Projects	Solid_Waste_Project_Table	No	No	N
Sewage_Capacity_Approved_Projects	Approved_Projects	Statement_of_Capacity_Sewer	No	No	N
Sewage_Capcity_Not_Approved_Projects	Not_Approved_Projects	Statement_of_Capacity_Sewer	No	No	N
Water_Capacity_Approved_Projects	Approved_Projects	Statement_of_Capacity_Water	No	No	N
Water_Capacity_Not_Approved_Projects	Not_Approved_Projects	Statement_of_Capacity_Water	No	No	N

Access_Points_Transportation_Relationship

Composite	No
Cardinality	One To One
Notification	None
Attributed	No

	Origin	Destination
ObjectClass	Project_Access_Point	Transportation_Projects_Table
Key	Project_Number (*Origin Primary Key*)	PROJECT_NUMBER (*Origin Foreign Key*)
Labels	Project_Access_Point	Transportation_Projects_Table

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Approved_Projects_Drainage_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Approved_Projects	Drainage_Project_Table
Key	PROJNUM (*Origin Primary Key*)	Project_Number (*Origin Foreign Key*)
Labels	Approved_Projects	Drainage_Project_Table

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Approved_Projects_Relationship

Composite	No	
Cardinality	One To Many	
Notification	Both	
Attributed	No	
	Origin	**Destination**
ObjectClass	Approved_Projects	Approved_Projects_Table
Key	PROJNUM (*Origin Primary Key*)	Project_Number (*Origin Foreign Key*)
Labels	Approved_Projects	Approved_Projects_Table

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Approved_Projects_Transportation_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Approved_Projects	Transportation_Projects_Table
Key	PROJNUM (*Origin Primary Key*)	PROJECT_NUMBER (*Origin Foreign Key*)
Labels	Approved_Projects	Transportation_Projects_Table

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Approved_Projects_Waste_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Approved_Projects	Solid_Waste_Project_Table
Key	PROJNUM (*Origin Primary Key*)	Project_Number (*Origin Foreign Key*)
Labels	Approved_Projects	Solid_Waste_Project_Table

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CSA_and_Schools_Relationship

Composite	No	
Cardinality	One To Many	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Concurrency_Service_Areas	Public_Schools
Key	ZONE_ (*Origin Primary Key*)	CSA_ZONE (*Origin Foreign Key*)
Labels	Concurrency_Service_Areas	Public_Schools

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Drainage_Projects_ERP

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Drainage_Project_Table	SFWMD_Env_Resource_Permits
Key	Existing_SFWMD_Permit (*Origin Primary Key*)	PERMIT_NO (*Origin Foreign Key*)
Labels	Drainage_Project_Table	SFWMD_ERP

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Drainage_Projects_SWMP

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Drainage_Project_Table	SFWMD_Surface_Water_Management_Permits
Key	Existing_SFWMD_Permit (*Origin Primary Key*)	PERMIT_NO (*Origin Foreign Key*)
Labels	Drainage_Project_Table	SFWMD_SWMP

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ESAZ_and_Schools_Relationship

Composite	No	
Cardinality	One To Many	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Attendance_Zones_Elementary	Public_Schools
Key	MSID_ELEM (*Origin Primary Key*)	MSID (*Origin Foreign Key*)
Labels	Attendance_Zones_Elementary	Public_Schools

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HSAZ_and_Schools_Relationship

Composite	No	
Cardinality	One To Many	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Attendance_Zones_High	Public_Schools
Key	MSID_HIGH (*Origin Primary Key*)	MSID (*Origin Foreign Key*)
Labels	Attendace_Zones_High	Public_Schools

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Infuence_Buffers_Transportation_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Infulence_Radius_Buffer	Transportation_Projects_Table
Key	Project_Number (*Origin Primary Key*)	PROJECT_NUMBER (*Origin Foreign Key*)
Labels	Infulence_Radius_Buffer	Transportation_Projects_Table

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Major_Projects_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Not_Approved_Projects	Major_Projects
Key	Project_Number (*Origin Primary Key*)	Project_Number (*Origin Foreign Key*)
Labels	Not_Approved_Projects	Major_Projects

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MSAZ_and_Schools_Relationship

Composite	No	
Cardinality	One To Many	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Attendance_Zones_Middle	Public_Schools
Key	MSID_MIDD (*Origin Primary Key*)	MSID (*Origin Foreign Key*)
Labels	Attendace_Zones_Middle	Public_Schools

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Not_Approved_Project_Drainage_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Not_Approved_Projects	Drainage_Project_Table
Key	PCN (*Origin Primary Key*)	PCN (*Origin Foreign Key*)
Labels	Not_Approved_Projects	Drainage_Project_Table

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Not_Approved_Projects_Transportation

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Not_Approved_Projects	Transportation_Projects_Table
Key	PCN (*Origin Primary Key*)	PCN (*Origin Foreign Key*)
Labels	Not_Approved_Projects	Transportation_Projects_Table

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Not_Approved_Projects_Waste_Relationship

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Not_Approved_Projects	Solid_Waste_Project_Table
Key	PCN (*Origin Primary Key*)	PCN (*Origin Foreign Key*)
Labels	Not_Approved_Projects	Solid_Waste_Project_Table

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Sewage_Capacity_Approved_Projects

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Approved_Projects	Statement_of_Capacity_Sewer
Key	PROJNUM (*Origin Primary Key*)	Project_Number (*Origin Foreign Key*)
Labels	Approved_Projects	Statement_of_Capacity_Sewer

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Sewage_Capcity_Not_Approved_Projects

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Not_Approved_Projects	Statement_of_Capacity_Sewer
Key	PCN (*Origin Primary Key*)	PCN (*Origin Foreign Key*)
Labels	Not_Approved_Projects	Statement_of_Capacity_Sewer

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Water_Capacity_Approved_Projects

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Approved_Projects	Statement_of_Capacity_Water
Key	PROJNUM (*Origin Primary Key*)	Project_Number (*Origin Foreign Key*)
Labels	Approved_Projects	Statement_of_Capacity_Water

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Water_Capacity_Not_Approved_Projects

Composite	No	
Cardinality	One To One	
Notification	None	
Attributed	No	
	Origin	**Destination**
ObjectClass	Not_Approved_Projects	Statement_of_Capacity_Water
Key	PCN (*Origin Primary Key*)	PCN (*Origin Foreign Key*)
Labels	Not_Approved_Projects	Statement_of_Capacity_Water

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Spatial References

Dimension	Minimum	Precision
Basemap		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000

Coordinate System Description

PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER

["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Developments		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Drainage		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Parks and Recreation		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Potable Water		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Public Schools		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		

Sanitary Sewer		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Solid Waste		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		
Transportation		
X	-17791300	3048.00609601219
Y	-41645400	
M	-100000	10000
Z	-100000	10000
Coordinate System Description PROJCS["NAD_1983_StatePlane_Florida_East_FIPS_0901_Feet",GEOGCS["GCS_North_American_1983",DATUM ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",656166.6666666665],PARAMETER ["False_Northing",0.0],PARAMETER["Central_Meridian",-81.0],PARAMETER["Scale_Factor",0.9999411764705882],PARAMETER ["Latitude_Of_Origin",24.33333333333333],UNIT["Foot_US",0.3048006096012192]]		

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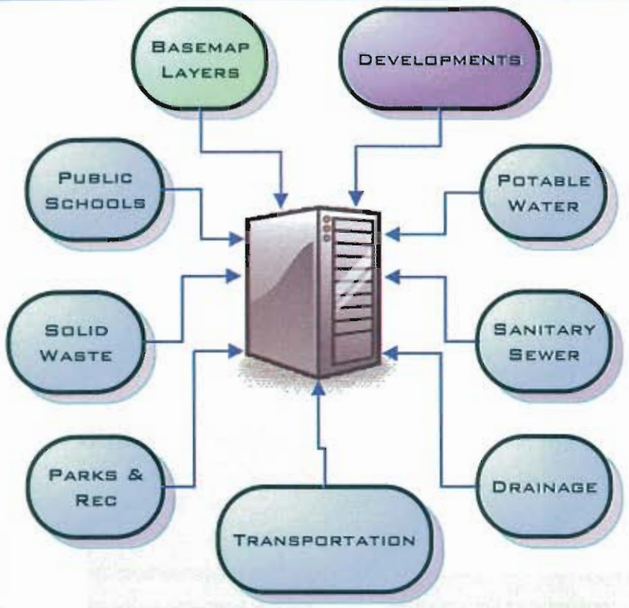
APPENDIX B

Florida Concurrency Database Model



Basemap Feature Dataset

- Parcels
- Political Boundaries
- Future Land Use
- Existing Land Use
- Census Tracts
- Aerial Photography
- CRA Areas
- Urban Service Boundaries
- Zoning

Supporting Documents

- LOS Standards
- Comprehensive Plan
- Capital Improvement Plan
- BEBR Population Estimates
- Parks & Rec Impact Analysis
- Drainage Statements
- Proposed & Approved Trip Generations
- Traffic Concurrency Letter
- Utility Concurrency Letter
- Solid Waste Concurrency Letter
- School District Concurrency Letter

Concurrency Groups

Transportation Facilities

- Centerlines
- Traffic Analysis Zones
- Mass Transit (if available)
- Transportation Exception Areas
- Transportation Concurrency Management Areas
- Project Access Points & Radius of Influence
- Proposed Roadway Improvements

Parks & Recreation Facilities

- Neighborhood Parks
- City \ Community Parks
- County Parks
- State Parks
- Marinas
- Public Golf Courses
- Park Buffers (Areas of Service)
- Proposed Parks & Facilities

Solid Waste Facilities

- Disposal Site Location & Capacities
- Areas of Service \ Schedules
- Proposed Disposal Sites

Public School Facilities

- Public School (Enrollment & Capacities
- School Attendance Zones
- CSA (Concurrency Service Areas
- Proposed Facilities

Water Facilities

- Potable Water Pressurized Mains
- Service Area Boundaries
- Meters \ Customers
- Well Locations
- WTP Location & Capacity
- Proposed Improvements

Sewer Facilities

- Sanitary Sewer Pressurized Mains
- Sanitary Sewer Gravity Mains
- Lift Stations
- WWTP Location & Capacity
- Proposed Improvements
- Septic Tank Locations

Drainage Facilities

- Storm Water Mains (Pipes & Culverts)
- Basins
- Structures (Outfalls & Inlets)
- Canals
- Retention \ Detention Ponds
- FEMA \ Flood Data
- Contours \ Topography
- Water Bodies \ Lakes
- Proposed Improvements
- District Permits

Other Facilities

- Facilities for which concurrency is not required in chapter 163, Florida Statute such as police, fire, etc.

Developments

- Approved Projects
- Not Approved Projects

Relationships

Tables

- Approved Projects (Units, Sq. Footage)
- Proposed Projects (Units & Sq. Footage)
- Project Transportation Counts & Estimates
- Project Drainage Specs & Estimates
- Project Solid Waste Specs & Estimates
- Project Water Capacity Specs & Estimates
- Project Waste Water Specs & Estimates

lbfh
A Boyle Engineering Company